PHILIPS

VIDE-V33762

SERVICE MANUAL

DVP3055V/05

PHILIPS

SERVICE INFORMATION FOR EEPROM IC SETTING(VCR)

EEPROM option code No. setting

NAME	HEX	BINARY
OPT1	00	00000000
OPT2	00	00000000
OPT3	00	00000000
OPT4	00	00000000
OPT5	00	00000000
OPT6	00	00000000

WR : OK I : EXIT MOVE : ◀ ▶
EDIT : ▲▼

MASKROM : R00
EEPROM : R13 LG CODE
C/SUM : OF

MODEL	NAME	HEX	BINARY
DVP3055V/01	OPT1	90	00000000
	OPT2	F4	00000000
	OPT3	60	00000000
	OPT4	C0	00000000
	OPT5	03	00000000
	OPT6	0B	00000000
DVP3055V/05	OPT1	90	00000000
	OPT2	F4	00000000
	OPT3	21	00000000
	OPT4	C0	00000000
	OPT5	0D	00000000
	OPT6	0B	00000000
DVP3055V/02	OPT1	90	00000000
	OPT2	D4	00000000
	OPT3	6B	00000000
	OPT4	C0	00000000
	OPT5	0D	00000000
	OPT6	0B	00000000
DVP3055V/19	OPT1	90	00000000
	OPT2	FC	00000000
	OPT3	E8	00000000
	OPT4	C0	00000000
	OPT5	06	00000000
	OPT6	0B	00000000

WR : OK I : EXIT MOVE : ◀ ▶
EDIT : ▲▼

EEPROM option code No. setting procedure

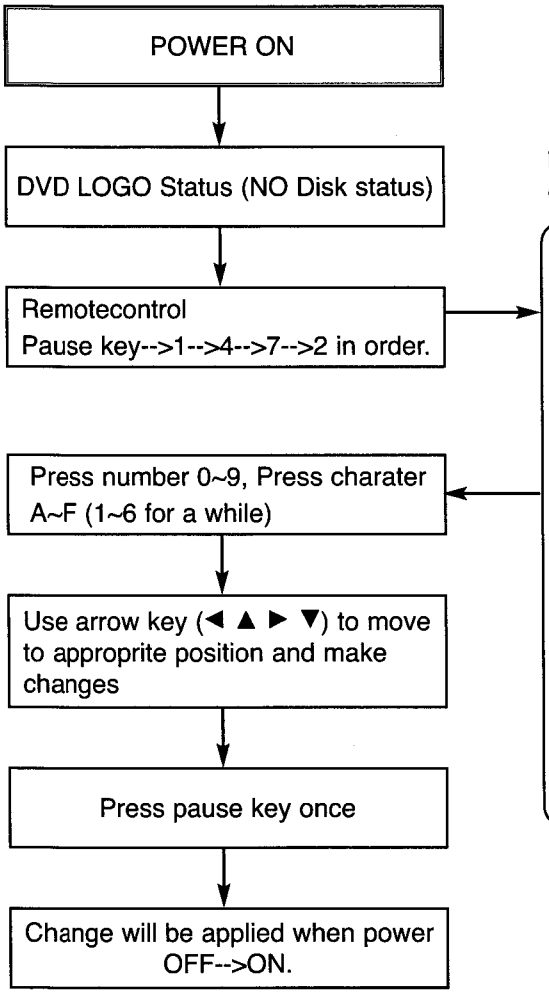
1. DETECT NEW EEPROM (OPTION EDIT SCREEN)
   - Eeprom EDIT screen automatically appears if replacing Eeprom.
   - Setup option data using the cursor Up/Down key of a remote control.
     (Setup upon BOM depending on OPT1~OPT6 model)
   - Since an initial remote control is set to LG for LG model, appropriately set optiona data using the cursor Up/Down key.

2. EEPROM WRITED COMPLETE SCREEN
   - Writes data on EEPROM by using REMOCON "OK".
   - If completing the option data screen with a menu key, Powering Off is automatically done and the option edit screen is arranged.

3. PG ADJUST
   1) Payback the SP standard tape
   2) Press the "1" key on the Remote controller and the "PLAY" key on the Front Panel the same time, then it goes in to Tracking initial mode.
   3) Repeat the above step(No.2), then it finishes the PG adjusting automatically.
   4) Stop the playback, then it goes out to PG adjusting mode after mony the PG data.

4. EEPROM INITIAL
   - SETUP is displayed in the field if pressing the FRONT REC KEY with the remocon number "CLEAR" key pressed in the status of powering Off.
   - AUTO SEARCH is done since the initial screen of ACMS is serviced if powering On.
   - Check basic operation (PLAY/RECORD...)

SERVICE INFORMATION FOR EEPROM (DVD)


POWER ON
DVD LOGO Status (NO Disk status)
Remotecontrol
Pause key-->1-->4-->7-->2 in order.
Press number 0~9, Press charater
A~F (1~6 for a while)
Use arrow key (◄ ▲ ► ▼) to move
to approprite position and make
changes
Press pause key once
Change will be applied when power
OFF-->ON.

DETECT NEW EEPROM
(OPTION EDIT SCREEN)

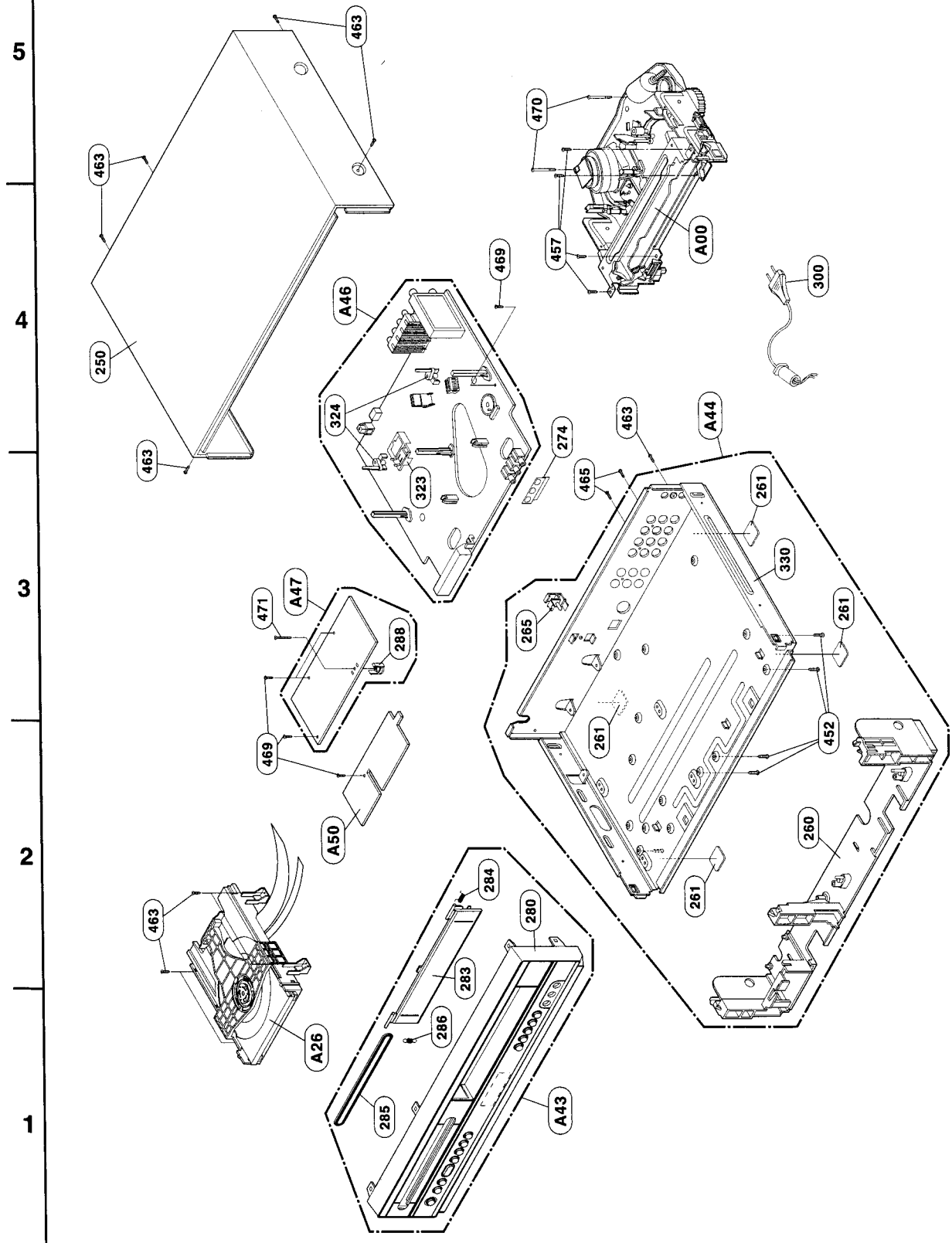
MODEL NAME	DVP3055V/01 HEX	DVP3055V/05 HEX	DVP3055V/02 HEX	DVP3055V/19 HEX
OPT 1	44	47	48	46
OPT 2	45	42	55	52
OPT 3	00	00	00	00
OPT 4	D7	D7	D7	D7
OPT 5	17	17	17	17
OPT 6	0F	0F	0F	0F
OPT 7	74	74	74	74
OPT 8	00	00	00	00
OPT 9	00	00	00	00
OPT A	00	00	00	00
OPT B	80	80	80	80
OPT C	00	00	00	00
OPT D	00	00	00	00
OPT E	00	00	00	00
OPT F	00	00	00	00
OPT G	00	00	00	00

*** OPTION**

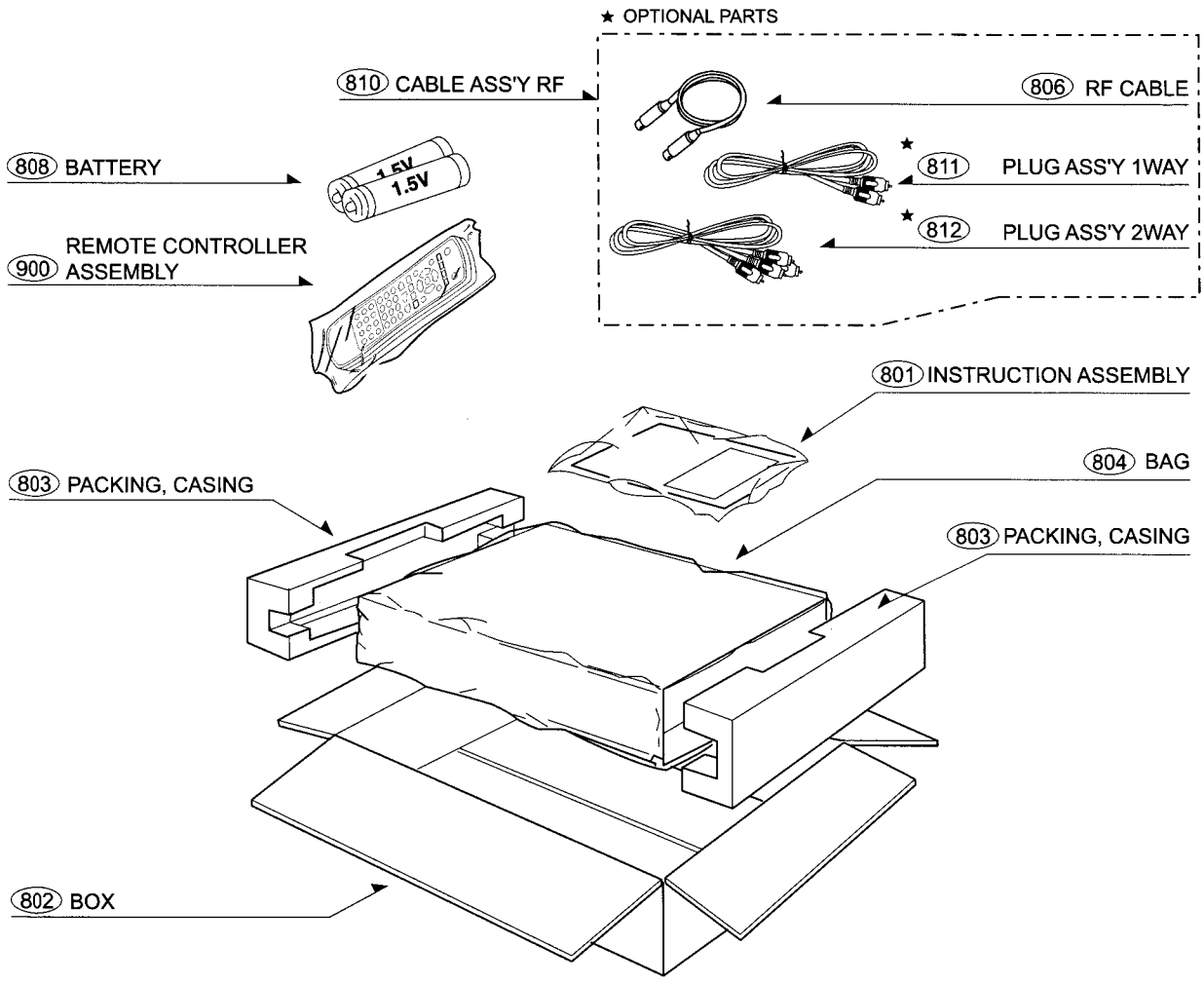
- NTSC model doesn't have VCR option and use DVD option B~F as VCR option. (only DVD exist)
- PAL model has another separate VCR option. (Both VCR and DVD exist)

EXPLODED VIEWS

1. Cabinet and Main Frame Section



2. Packing Accessory Section



LOCATION GUIDE

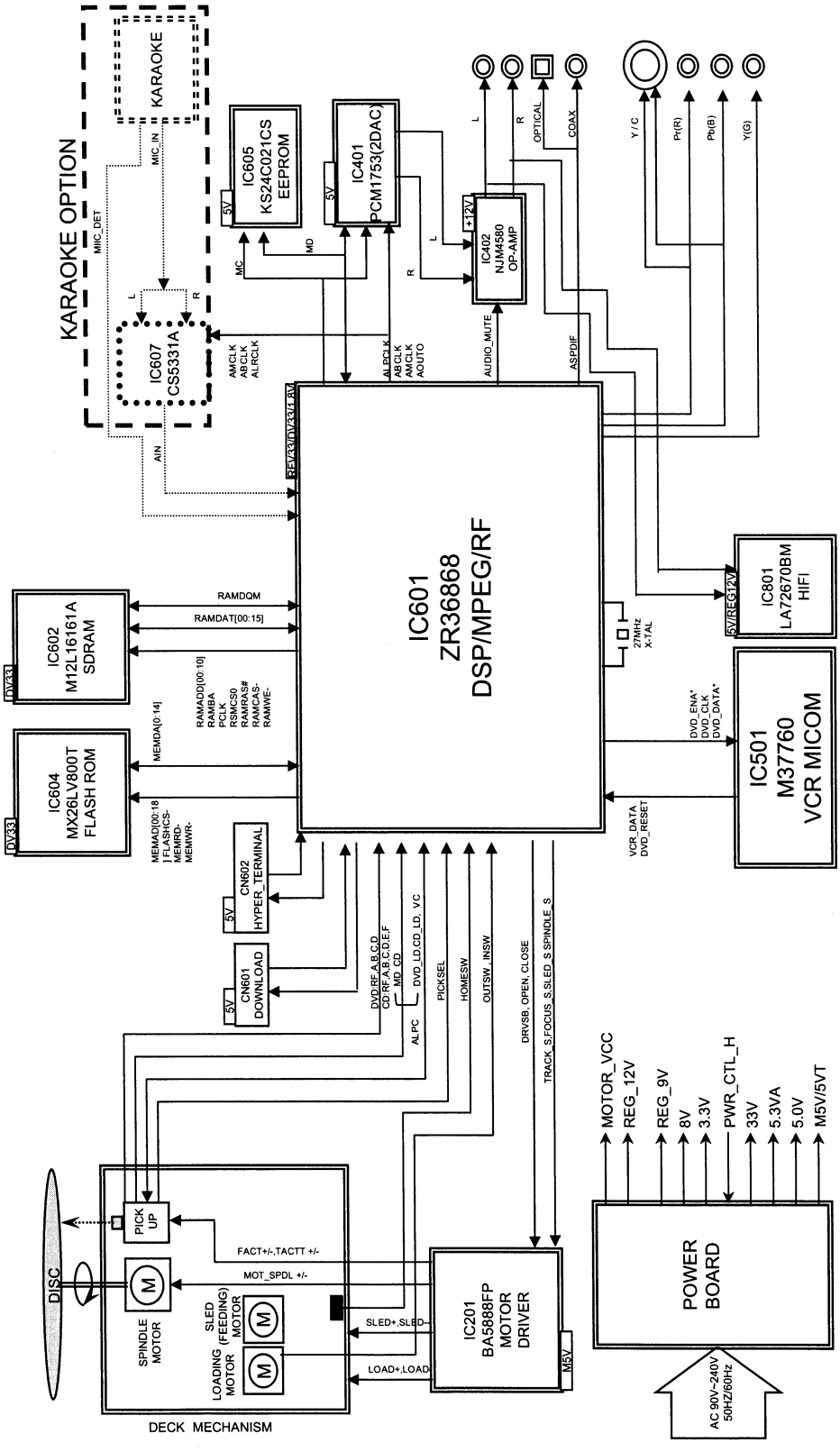
BC91	H12	C358	E8	C544	J8	C649	E5	C826	C11	CS501	B2	L308	G10	PMX01	L5	R229	B3	R347	E8	R553	H3	R617	C6	R7V9	K10	R973	C11
BC92	E12	C359	D9	C545	J8	C650	E4	C827	C11	CTL±TP	J10	L3S1	I10	Q201	A4	R231	B3	R348	E9	R555	D3	R618	D6	R801	D10	R974	D11
C201	A3	C360	D9	C546	J9	C651	E5	C828	A8	D201	B5	L501	I2	Q202	A5	R232	B3	R349	E9	R556	H4	R619	C6	R802	C10	R975	D11
C202	A3	C361	D9	C547	I8	C652	E5	C829	B9	D301	D8	L503	I2	Q203	B2	R233	B3	R350	G8	R557	L7	R620	C5	R803	C10	R976	I11
C204	A4	C362	E7	C551	J7	C653	E4	C850	D10	D401	H11	L504	K3	Q204	B2	R236	B3	R351	F8	R558	E1	R621	C6	R804	C10	R977	J11
C205	A5	C363	E8	C552	B2	C660	B8	C851	C9	D503	J9	L505	H3	Q205	B3	R238	B3	R352	D8	R559	E1	R622	C2	R805	C10	R978	I11
C206	A5	C366	G8	C553	I3	C662	E2	C852	C9	D504	J9	L5F1	J1	Q206	B3	R239	B3	R353	D8	R560	I4	R624	D7	R806	C10	R984	F11
C207	A4	C367	E9	C554	I3	C663	C7	C853	A9	ES501	L7	L5F2	K1	Q207	B4	R243	B3	R354	D9	R561	I4	R625	D7	R807	C11	R985	F11
C208	B4	C368	E9	C556	G2	C664	C4	C856	C9	ES502	A5	L5G2	D2	Q208	B4	R244	B2	R355	E8	R562	I4	R626	D7	R808	B11	R986	G11
C209	B5	C369	E9	C557	L7	C666	C7	C870	D10	H/SW±TP	J10	L5V1	J3	Q301	F10	R245	B3	R356	H10	R563	J8	R627	D6	R809	B10	R998	F11
C210	B3	C370	F7	C558	G2	C667	C7	C871	B9	IC201	B3	L601	B6	Q302	F10	R246	B3	R361	E10	R564	A7	R628	D6	R810	B11	R999	F11
C211	B3	C371	E8	C567	I4	C668	C7	C884	D11	IC203	B6	L602	B6	Q303	F10	R247	A3	R362	E10	R565	A6	R629	D5	R811	B11	RC501	E1
C212	B3	C372	E7	C568	I4	C669	C7	C885	C10	IC351	I9	L603	C2	Q304	F10	R248	A3	R365	E7	R566	I8	R630	D2	R812	C11	RESET±TP	L7
C213	C2	C373	F8	C570	J3	C670	C8	C886	B9	IC401	B8	L604	B5	Q305	E7	R249	A3	R366	D8	R567	I4	R631	D3	R821	D11	RF±TP	J10
C214	B2	C374	F7	C571	J3	C671	C8	C887	C9	IC402	B11	L605	C6	Q306	H10	R250	A3	R368	E8	R568	H4	R632	D2	R822	D11	RS501	I3
C215	B3	C375	F7	C581	I5	C672	A3	C888	D10	IC503	K2	L606	D7	Q307	E8	R251	B3	R369	F9	R569	E2	R633	D3	R823	C10	RS502	D3
C216	A3	C376	E7	C583	I4	C673	D3	C889	D10	IC504	J3	L607	D6	Q309	E8	R252	A3	R370	F9	R570	K3	R634	C2	R824	C10	SC901	G12
C217	B5	C378	F9	C584	I4	C701	L9	C890	A11	IC505	K3	L608	D5	Q310	G8	R253	B5	R371	F9	R575	K4	R635	C2	R825	D10	SW501	F1
C218	A5	C379	F9	C588	I4	C702	K11	C891	D10	IC5F1	D2	L609	C6	Q311	G10	R254	B5	R372	F9	R576	K4	R636	D4	R826	C10	SW502	G1
C219	A4	C388	G10	C5B2	I5	C703	L11	C892	B8	IC601	C5	L610	D5	Q403	H11	R255	B4	R375	E8	R577	K4	R638	D3	R834	C9	SW503	G1
C220	B5	C3S1	I8	C5G2	D1	C704	K9	C902	J11	IC602	E5	L701	K12	Q404	H11	R256	B4	R3S1	J9	R578	K4	R639	B8	R835	C9	SW504	H1
C221	A5	C3S2	J9	C5G3	D2	C706	L10	C903	J11	IC604	C3	L702	K11	Q405	I11	R258	B4	R3S2	I9	R579	J4	R640	B8	R836	B9	SW505	I1
C222	B6	C3S3	J9	C5K8	C8	C707	L10	C907	I11	IC605	B8	L704	L7	Q501	K4	R259	B4	R3S3	I9	R580	I3	R641	C4	R837	B9	SW506	F1
C301	F10	C3S4	J9	C5L1	I1	C709	L10	C908	I11	IC606	E2	L705	L9	Q503	K3	R260	B4	R3S4	I8	R581	J5	R642	E2	R839	A9	S±Y	C6
C302	G10	C3S5	J9	C5L2	K1	C710	K11	C909	J11	IC607	C7	L707	L9	Q504	I3	R261	B4	R403	B8	R582	J5	R643	E2	R841	A8	TP0A	C6
C303	E9	C3S6	J9	C5L3	J1	C712	L8	C910	J11	IC751	L8	L7V1	K9	Q505	I3	R262	B4	R404	B8	R583	K3	R646	E2	R861	B9	TP641	C6
C304	D8	C3S7	J10	C5L4	K1	C713	L8	C911	H11	IC7V1	K10	L801	C11	Q506	I3	R263	B4	R405	A11	R584	I3	R648	I11	R862	B9	TP642	C6
C305	D8	C3S8	I10	C5L5	J1	C714	L8	C913	H12	IC802	B9	L802	A11	Q514	I4	R264	A5	R406	A11	R585	I3	R649	C7	R863	A9	TP643	C6
C306	E9	C3S9	I9	C5L6	E1	C715	L8	C914	E12	IC803	E3	L901	E11	Q515	E1	R265	B6	R407	B12	R588	I4	R650	C7	R864	A9	TP644	C6
C307	F9	C3T1	J10	C5R1	E1	C716	L8	C915	B12	IC901	E6	L902	E11	Q601	A5	R266	B6	R408	B12	R592	G1	R651	C3	R867	C10	TPSCL	C6
C308	G10	C3T2	I9	C5R2	D1	C717	K9	C916	E12	IC903	B7	L903	E11	Q602	A4	R267	B5	R409	B11	R593	G1	R652	C3	R868	D10	TPSOA	D6
C309	E9	C3T3	I8	C5S1	I3	C718	L9	C917	D12	J303	E8	L904	E11	Q603	B4	R268	B5	R410	B11	R5B3	I4	R653	C7	R875	D10	TU701	L12
C310	G10	C3T4	I9	C601	B3	C719	L9	C918	E12	J333	G9	L905	E12	Q751	K10	R269	B5	R411	B12	R5B4	I5	R654	C8	R876	D10	X301	F8
C311	H10	C3T5	I9	C602	C3	C720	K8	C919	D12	J503	L4	L906	E11	Q752	K10	R270	B4	R412	B12	R5C5	L7	R655	C8	R881	B9	X302	F8
C312	D8	C3T6	I10	C603	B3	C721	K8	C920	E12	J602	E2	L907	D12	Q801	A9	R301	E9	R413	B12	R5C6	B2	R656	C7	R882	D10	X501	J3
C314	F9	C3T7	I9	C604	B3	C722	K8	C921	E12	J603	E2	L908	I11	Q802	A9	R302	D8	R414	B11	R5C7	A7	R657	C7	R891	D11	X502	J3
C315	D8	C401	B8	C605	B4	C723	K8	C922	E11	J604	E2	L909	J11	Q803	B9	R303	J6	R415	C11	R5C9	L4	R658	C7	R892	A11	X601	C6
C316	D8	C402	C8	C606	B4	C726	L8	C923	E11	J701	K10	L910	F11	Q804	A11	R304	J6	R416	H11	R5D1	G2	R659	C6	R893	D11	X751	L8
C317	E8	C405	B8	C607	B4	C727	L8	C924	E11	J702	K10	L914	K11	Q805	B9	R305	F10	R417	H11	R5D2	G2	R660	D6	R901	F11	ZD501	J1
C318	F8	C406	A12	C608	B5	C728	L7	C925	E11	J801	A8	L915	K11	Q806	B9	R306	F10	R418	H11	R5D3	G2	R661	C6	R902	F11	ZD502	J1
C319	E9	C407	B12	C609	B5	C729	L8	C926	K11	J802	A8	L916	I11	Q902	H11	R307	F10	R419	H11	R5D4	G2	R670	E4	R903	G11	ZD503	K1
C320	G8	C408	A12	C610	B5	C732	L8	C927	K11	J813	A9	L917	H11	Q903	H11	R308	E9	R420	I11	R5D5	G2	R671	E4	R904	I11	ZD504	L1
C321	E8	C409	A11	C611	C3	C751	K12	C928	F11	J816	B9	L918	A8	Q904	J11	R309	E9	R422	B8	R5D6	G2	R682	B4	R905	J11	ZD505	I1
C322	F7	C410	A12	C612	C3	C752	L12	C930	D12	J8H1	C8	L923	B6	Q905	A7	R310	F10	R423	B8	R5G1	D2	R683	B4	R906	D12	ZD506	I1
C323	G10	C411	B11	C613	B5	C7M3	L12	C936	K11	J8H2	B9	L924	C7	Q906	A8	R311	E9	R424	B8	R5G2	E1	R684	B4	R907	E12	ZD801	A11
C324	G9	C412	B12	C614	B6	C7M4	L11	C937	K11	J8H3	C9	L925	C7	Q907	F11	R312	E9	R425	B8	R5G3	E1	R685	A5	R913	G11	ZD802	B11
C325	E7	C413	A12	C615	C6	C7M5	L12	C938	B7	J8H4	B9	L926	C7	Q908	F11	R313	H10	R501	K2	R5G4	E1	R686	A4	R914	G11	ZD803	C11
C326	F10	C414	B11	C616	B6	C7M6	L11	C939	C7	J8M1	C8	L927	C11	Q909	F11	R314	H10	R502	K2	R5K1	G1	R687	A4	R919	H11	ZD901	D11
C327	F8	C415	C11	C617	C6	C7S1	K10	C941	B11	J8M2	A9	L928	D11	Q910	F11	R315	H10	R504	K3	R5K2	G1	R688	B5	R920	H12	ZD902	E11
C328	D9	C418	I11	C618	B6	C7S2	K11	C942	B12	J8M3	B9	L929	D11	Q911	I11	R316	D7	R505	J8	R5K3	H1	R689	C6	R921	H12	ZD903	F11
C329	F8	C501	K3	C619	C6	C7S3	L10	C943	H11	J8M4	D10	L930	D12	Q912	J11	R317	E9	R506	I2	R5K4	I1	R705	L10	R922	C12	ZD905	G12
C330	F8	C502	K3	C621	C6	C7V1	J9	C944	H11	J8M5	C10	L931	C12	Q913	I11	R318	F8	R507	I3	R5K5	F1	R706	L10	R931	J11	ZD906	G11
C331	G9	C503	I2	C622	C6	C7V2	J10	C945	H11	J8M6	B9	LD501	F5	Q914	H11	R319	G10	R508	I2	R5K9	I1	R707	K9	R932	J11	ZD907	F11
C332	F9	C504	J2	C623	C6	C7V3	J10	C946	I11	J8M7	A9	LED501	B1	R201	A4	R320	E9	R509	J3	R5L1	F1	R708	K8	R934	J11	ZD908	F11
C333	F8	C505	K3	C624	C6	C7V4	K10	C947	C12	J8M8	C9	LED502	C1	R204	A4	R321	G9	R510	L5	R5L2	F1	R709	K8	R935	B12	ZD909	H11
C334	F8	C506	K3	C625	D6	C7V5	K10	C948	C12	J8M9	A9	MIX	A8	R205	A5	R322	F9	R511	I2	R5L3	F1	R710	K8	R936	B12	ZD910	G11
C335	G9	C507	I2	C626	D6	C802	C10	C950	A8	J8MA	B9	MS501	K4	R206	A5	R323	G8	R512	J8	R5L4	F1	R711	K8	R937	B12	ZD911	D12
C336	F9	C508	J4	C627	D5	C803	C10	C971	G11	J901	F6	P3D01	E9	R207	A5	R324	E9	R517	K4	R5L5	F2	R712	K8	R938	B12	ZD912	D12
C337	G9	C509	I3	C628	D5	C804	D11	C973	F6	J902	F11	P3D02	G9	R208	A5	R325	E7	R518	K4	R5L6	F1	R713	K8	R940	C12	ZD915	E11
C338	E9	C510	J4	C629	D6	C805	D11	C974	F7	J903	E11	P3D03	A8	R209	B5	R326	E9	R520	I3	R5R7	E1	R714	K10	R941	C12	ZD916	E11
C339	G9	C511	J3	C630	E5	C806	D10	C975	B6	J904	C7	PM0	D6	R210	B5	R327	E9	R521	I8	R5R8	D1	R715	K11	R950	A8	ZD917	E11
C340	G9	C512	I3	C631	D4	C807	C11	C976	B7	J905	D11	PM1	D5	R211	B4	R328	F9	R522	I8	R5S1	J3	R716	L10	R951	A8	ZD918	E11
C341	F9	C513	I4	C632	D4	C810	D10	C977	A7	J906	F6	PM10	D6	R212	B4	R329	F9	R523	I8	R601	C4	R717	L9	R952	B6	ZD919	E11
C342	E8	C514	J3	C633	D4	C811	C10	C978	B7	J911	J11	PM11	D6	R213	B4	R330	F9	R525	K6	R602	C3	R718	L9	R953	A7	ZD920	E11
C343	F8	C515	J3	C634	D4	C812	C9	C979	B7	JK5L1	J1	PM12	C6	R214	B4	R331	F9	R526	K6	R603	B4	R7M1	L12	R954	A7	ZD921	G11
C344	E9	C516	K2	C635	C6	C813	C10	C980	B7	JK902	I12	PM13	B8	R216	A4	R332	F9	R528	I8	R604	B3	R7M2	L11	R955	F7	ZD922	E11
C345	E9	C517	I3	C637	D4	C814	B9	C981	B7	JK903	B12	PM15	C4	R217	A4	R333	F9	R529	K3	R605	B5	R7M4	L11	R956	A8	ZD923	E11
C346	D9	C518	I3	C638	C4	C815	B10	C983	C11	JK904	D12	PM16	C5	R218	B5	R334	E8	R531	K3	R606	B5	R7M5	L11	R958	B7	ZD924	G12
C347	F9	C519	J8	C639	C4	C816	B10	C984	D11	JP601	D2	PM17	C6	R219	A5	R335	E8	R534	J3	R607	B5	R7M6	L12	R961	B7	ZD925	G11
C348	D8	C520	J5	C640	C4	C817	B11	C985	D11	JP602	D2	PM2	D6	R220	A4	R336	D9	R537	I3	R608	B5	R7S1	K10	R963	D11	ZD926	H11
C349	G8	C522	I3	C641	E3	C818	B10	C987	A7	L202	A4	PM3	D6	R221	A4	R337	D9	R539	I3	R609	B6	R7V1	K10	R964	I11		
C350	F9	C523	H2	C642	E3	C819	C10	C989	B7	L205	A3	PM4	D6	R222	B3	R338	E8	R542	K4	R610	B6	R7V2	K10	R965	I11		
C351	J6	C524	I2	C643	D3	C820	B11	CN201	A5	L301	D8	PM5	D5	R223	B2	R339	E8	R544	B2	R611	B6	R7V3	K10	R967	D11		
C352	E9	C525	I8	C644	D3	C821	C10	CN202	A4	L303	F9	PM6	D6	R224	A3	R340	D8	R545	K7	R612	C6	R7V4	K10	R968	J11		
C353	E7	C526	J8	C645	G6	C822	B11	CN601	A8	L304	G8	PM7	D6	R225	A3	R341	G8	R546	K7	R613	C5	R7V5	K10	R969	I11		
C355	E8	C534	L7	C646	E5	C823	C11	CN602	A7	L305	F7	PM8	D6	R226	B3	R342	E8	R547	J4	R614	C6	R7V6	K10	R970	C11		
C356	D8	C535	A7	C647	E5	C824	C11	CN603	A3	L306	E7	PM9	D5	R227	B3	R343	E8	R548	B2	R615	B5	R7V7	K10	R971	I11		
C357	D8	C543	J7	C648	E5	C825	C11	CN605	A10	L307	D9	PMC01	J8	R228	B3	R345	E8	R550	F6	R616	C6	R7V8	K10	R972	I11		

LOCATION GUIDE

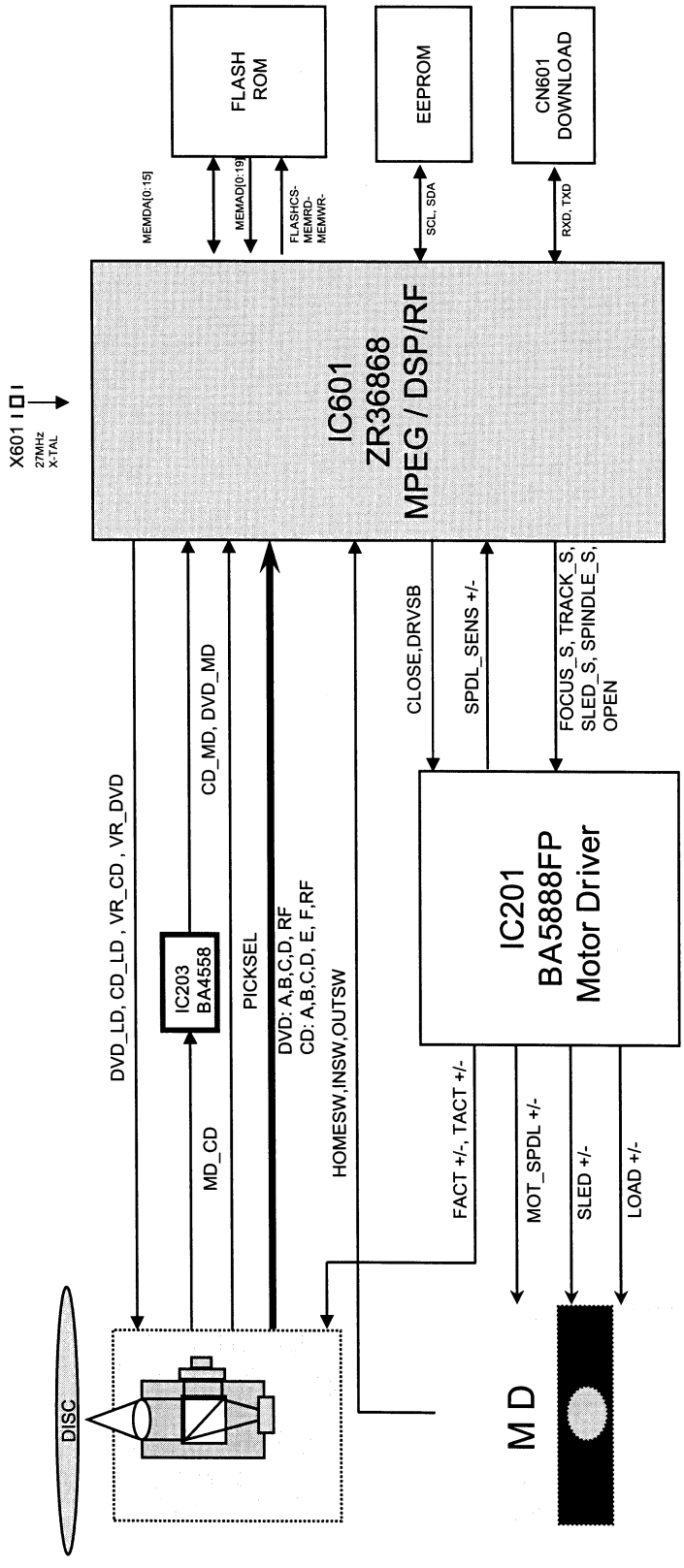
IC301	H8
IC501	D4
IC801	J10
PM14	L4
PM18	I4
REC±TP	D8
SLIT1	K8
SLIT2	I3
TP01	I2
TP02	I2
TP03	I2
TP04	I2
TP05	J2
TP06	J2
TP07	J3
TP08	J3
TP09	J3
TP10	J3
TP11	J3
TP12	J3
TP13	J3
TP14	J3
TP15	J3
TP16	J3
TP17	J3
TP18	J3
TP19	J3
TP20	J6
TP201	L4
TP21	J3
TP22	J3
TP23	J3
TP24	J3
TP25	J3
TP26	J3
TP27	J3
TP28	J3
TP29	J3
TP30	J3
TP31	J3
TP32	J3
TP33	J3
TP34	I3
TP35	I3
TP36	I3
TP37	I3
TP38	I3
TP39	I3
TP40	J3
TP522	C4
TP561	D3
TP566	D4
TP568	D4
TP595	D5
TP596	D5
TP597	D5
TW1	C5

BLOCK DIAGRAMS

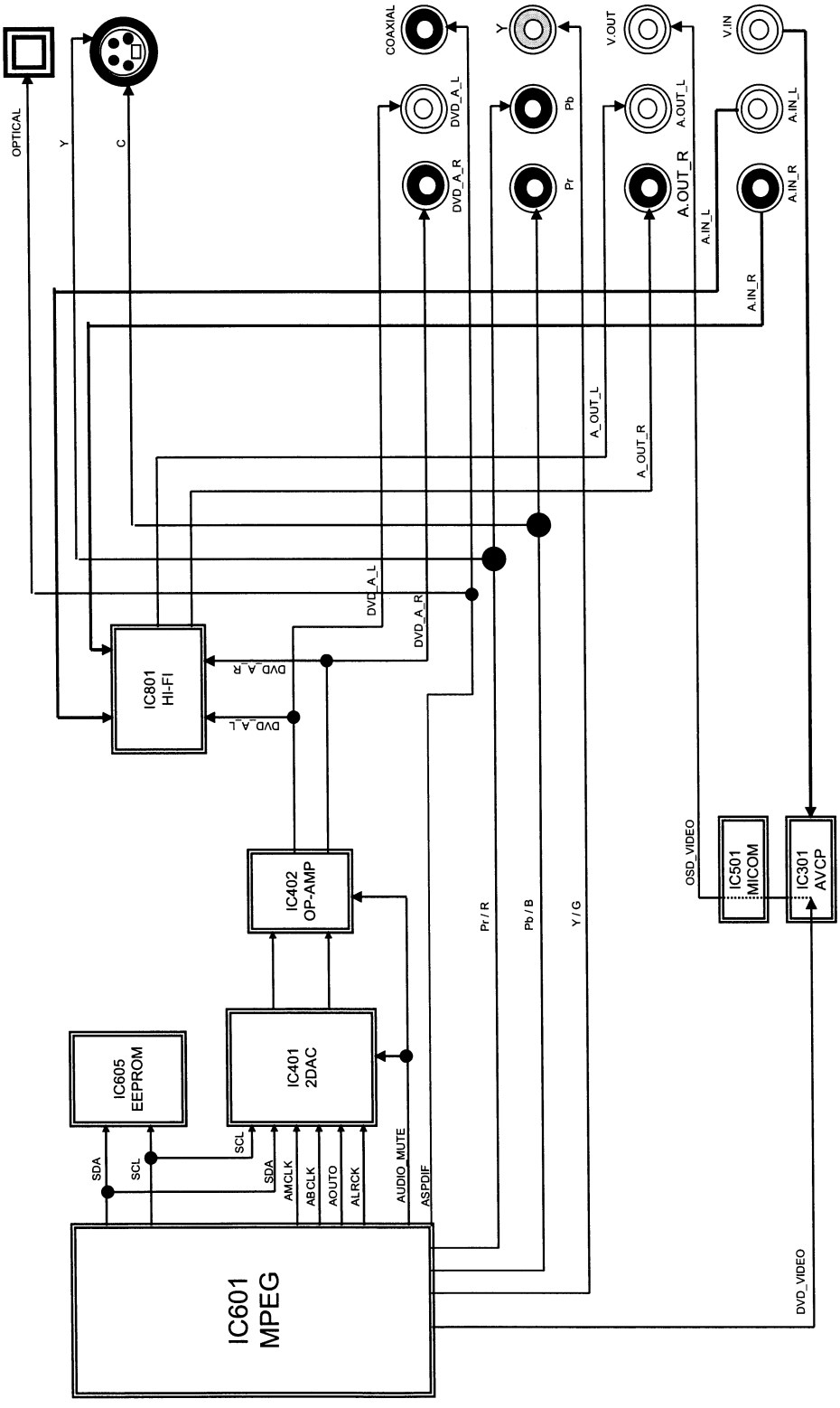
1. Overall Block Diagram



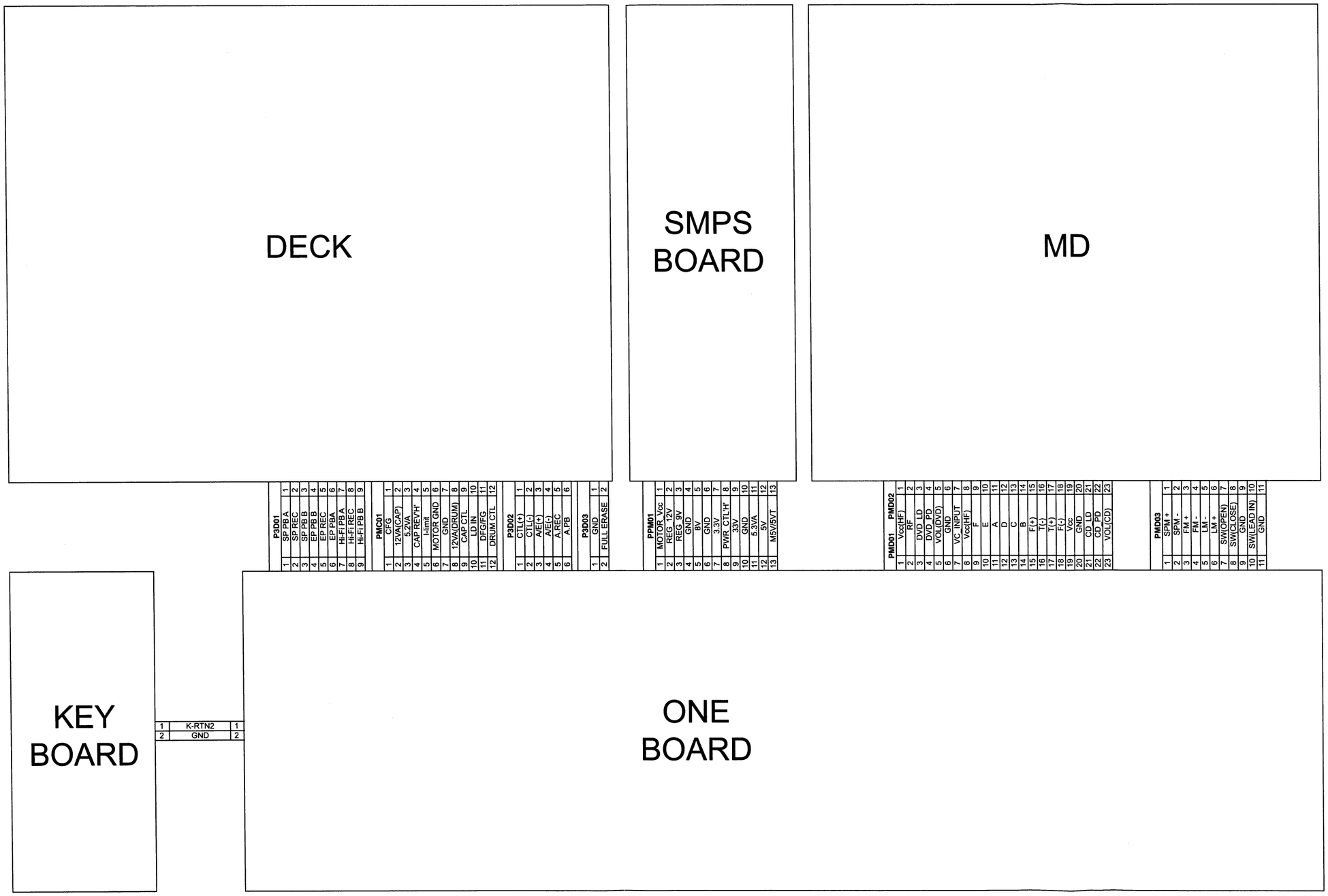
2. SERVO Block Diagram



3. VIDEO & AUDIO Block Diagram

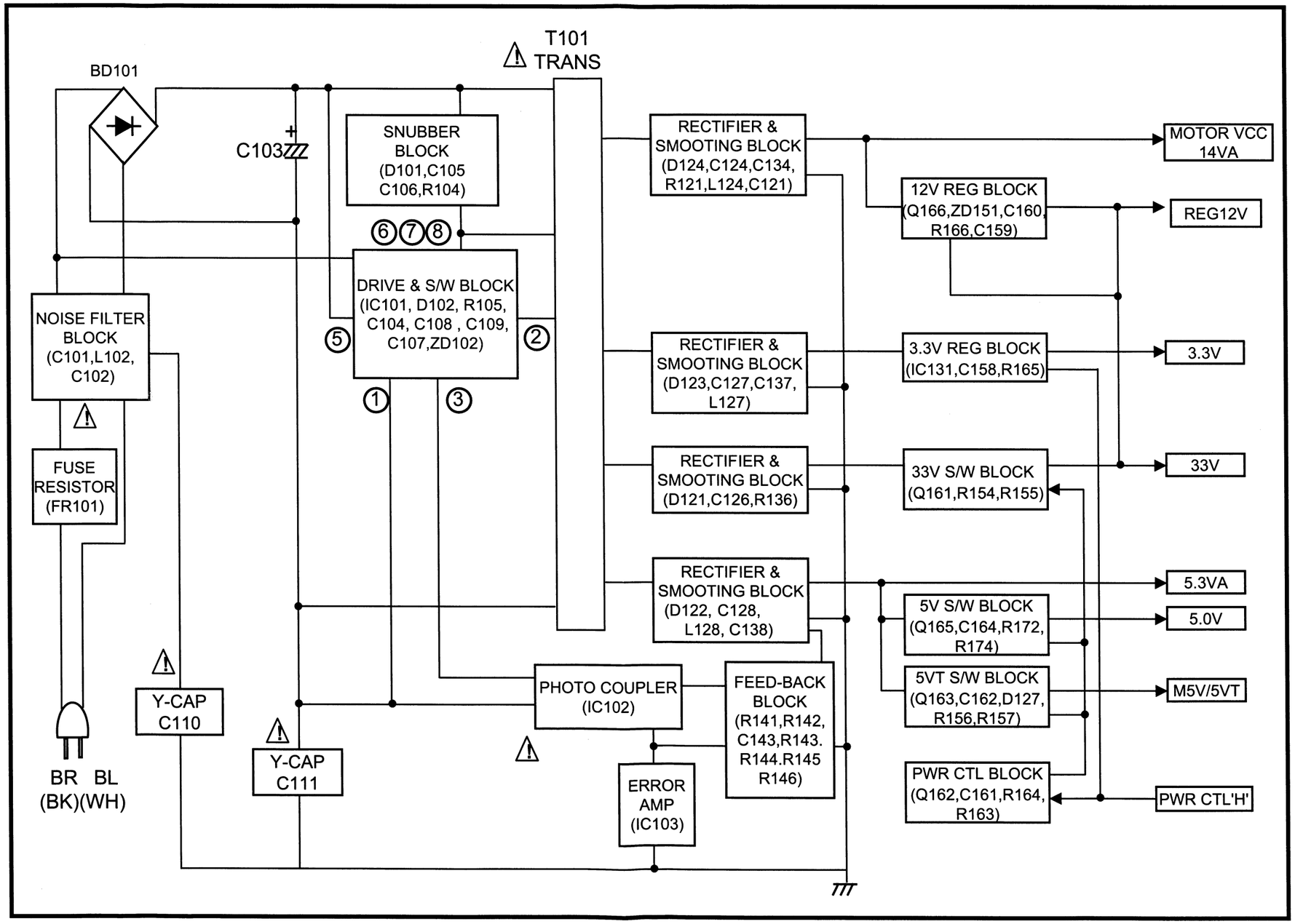


OVERALL WIRING DIAGRAM

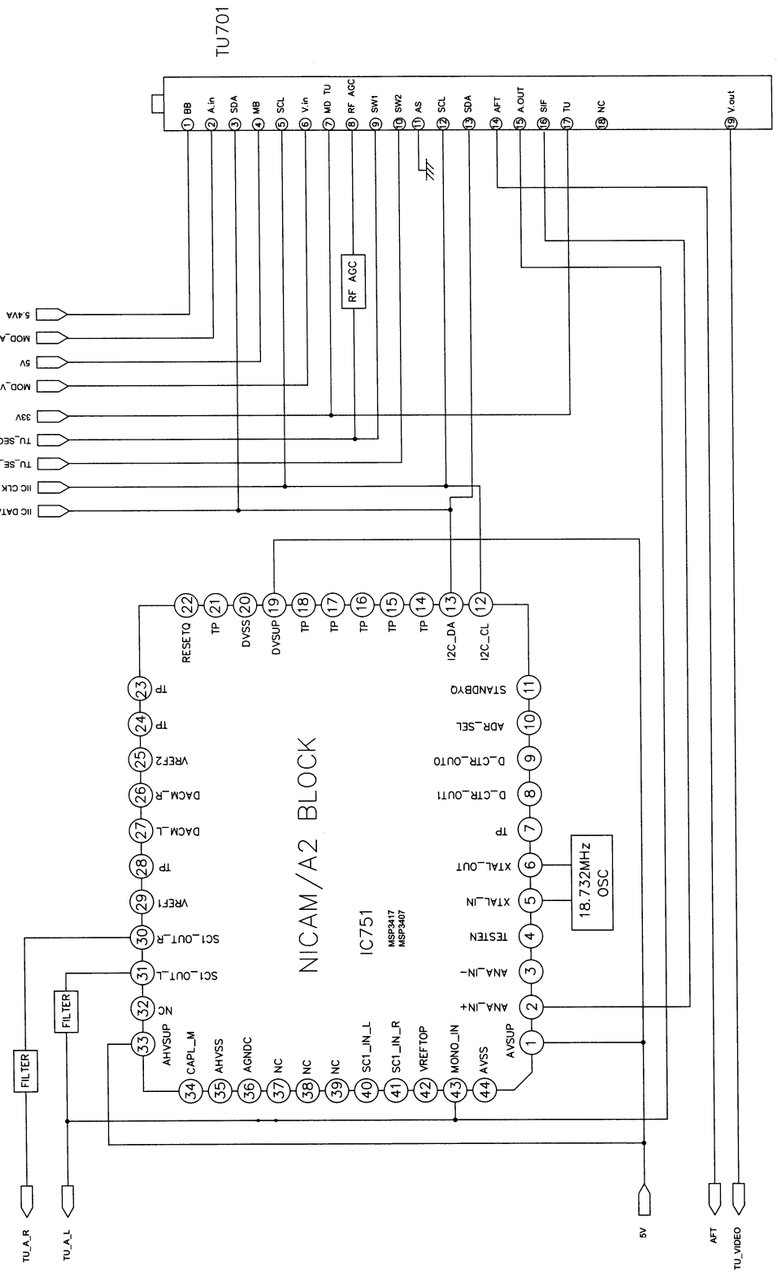


BLOCK DIAGRAMS

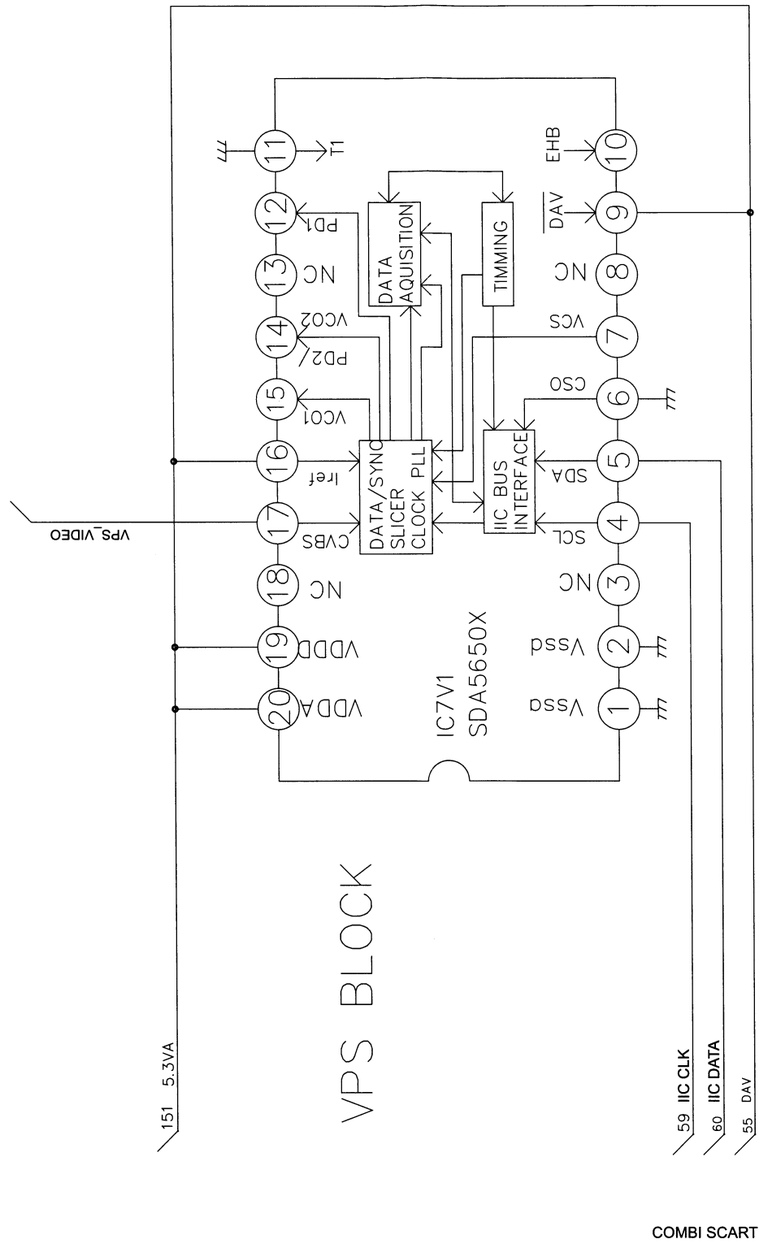
1. POWER(SMPS) BLOCK DIAGRAM



2. Tu/IF, NICAM & A2 BLOCK DIAGRAM

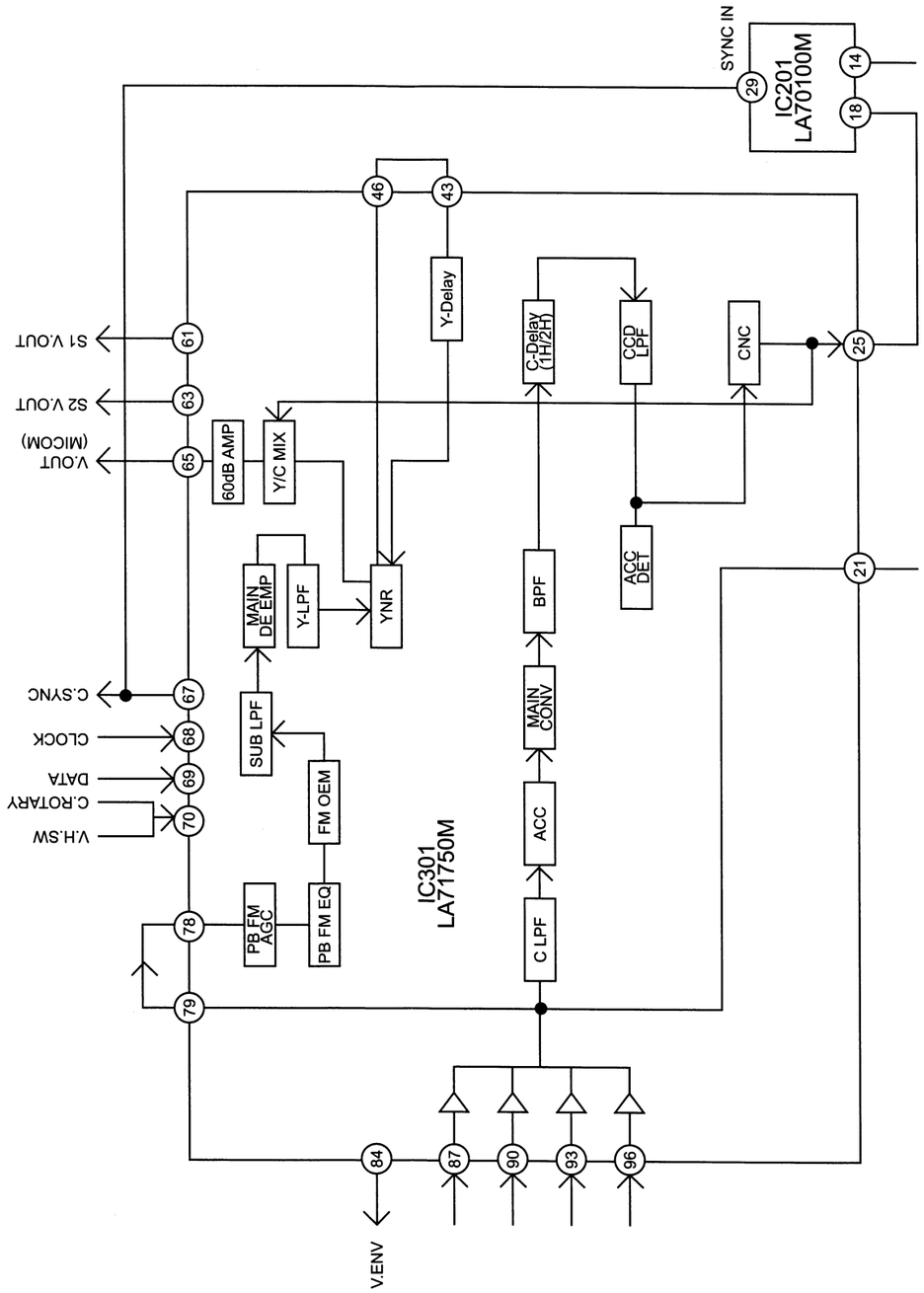


3. VPS BLOCK DIAGRAM

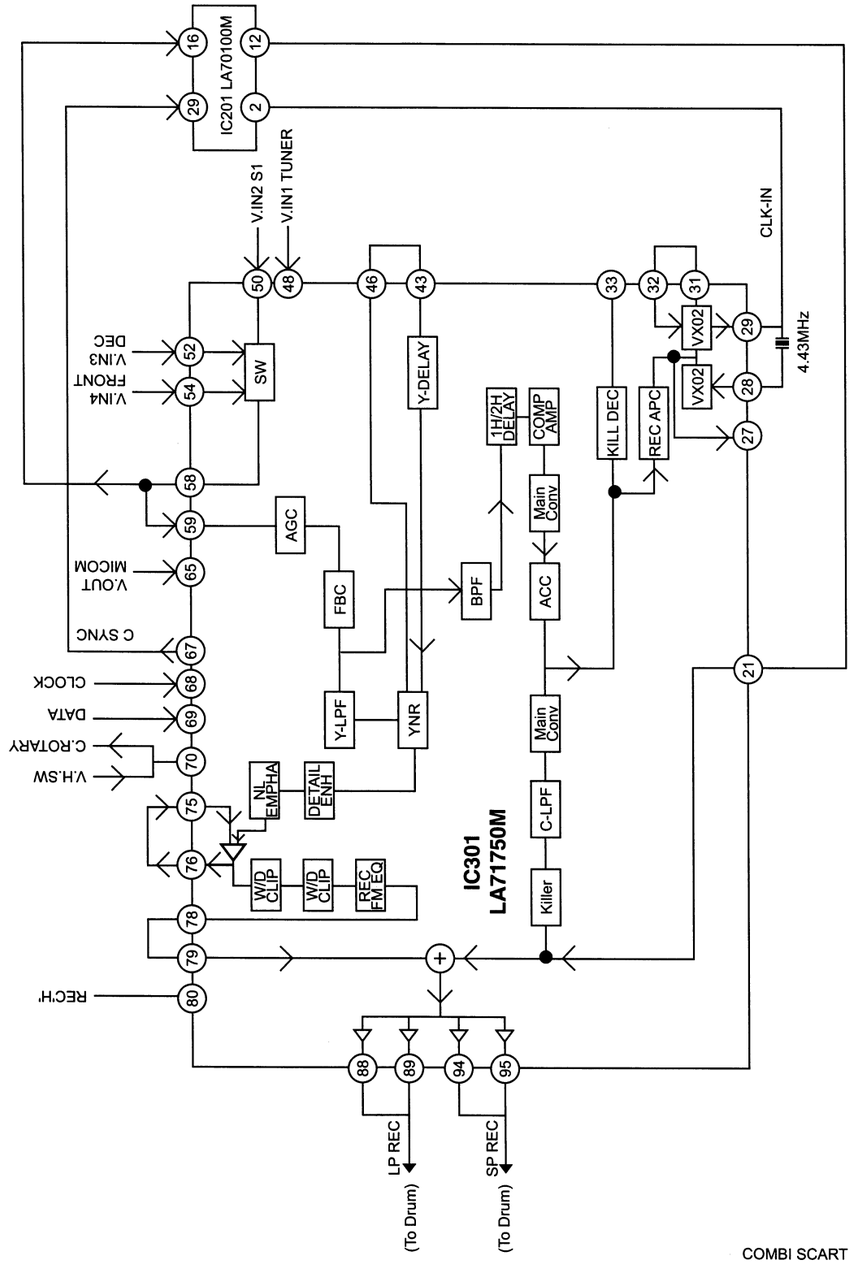


4. Y/C BLOCK DIAGRAM

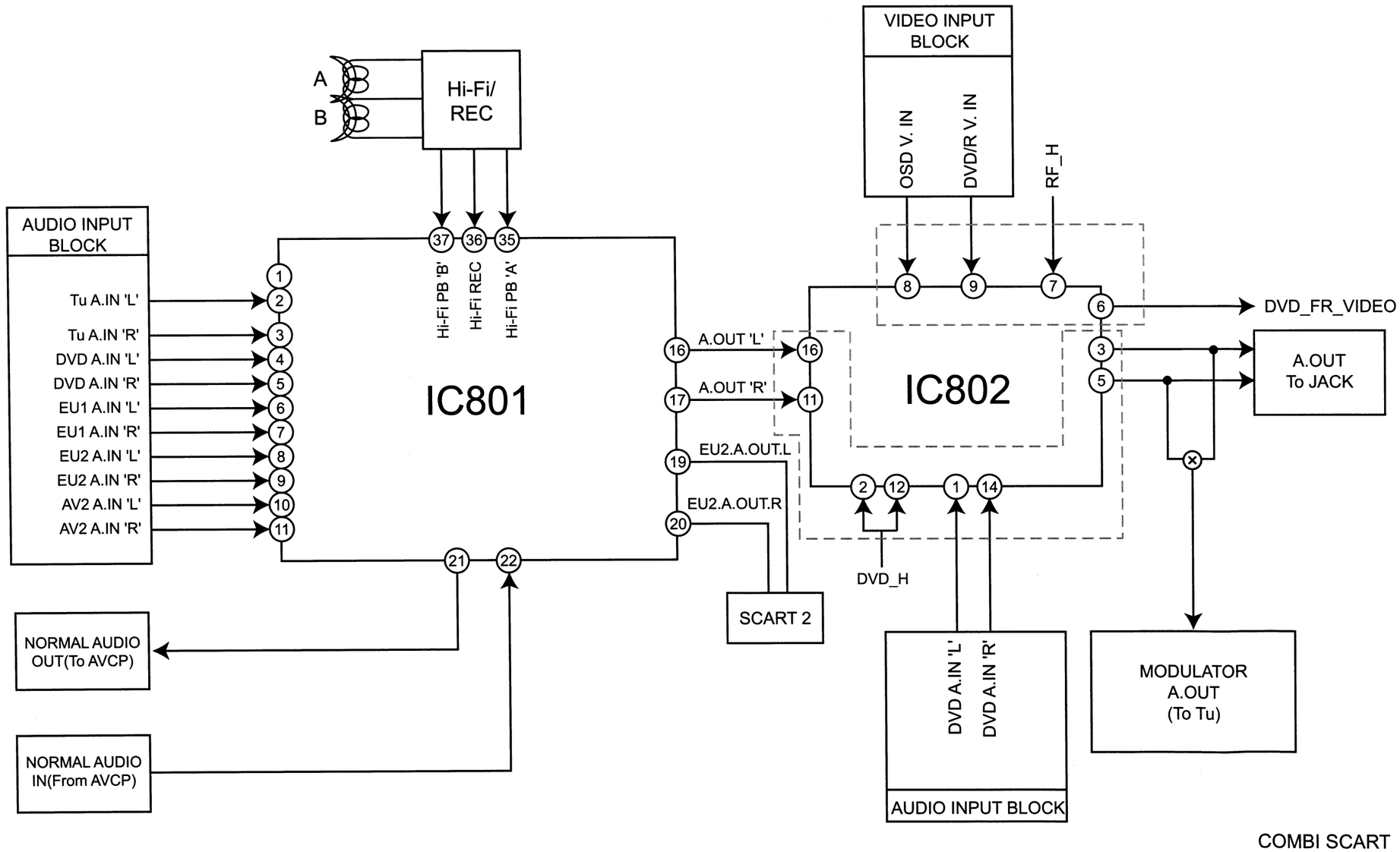
(PB Mode)



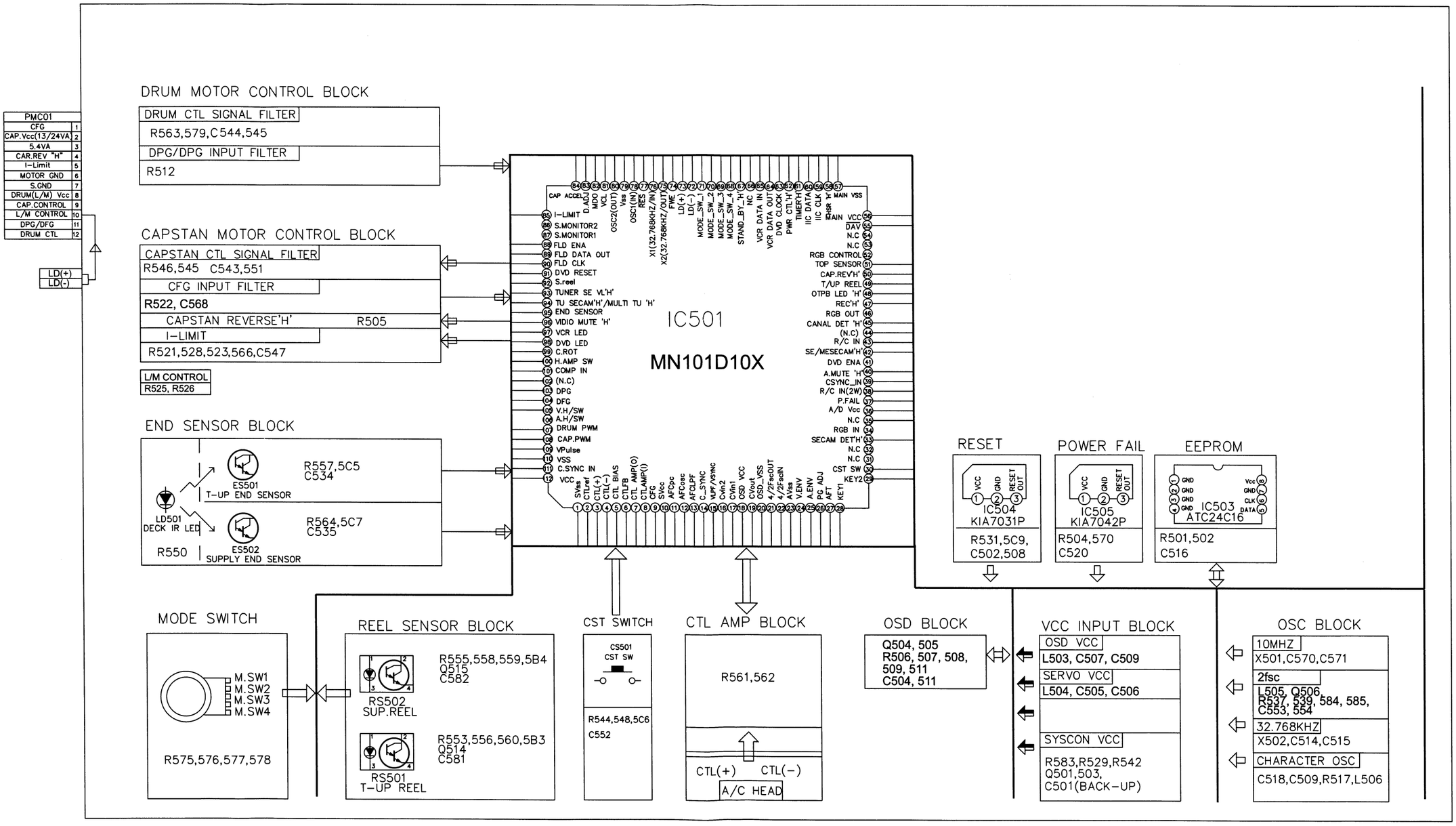
(REC Mode)



5. Hi-Fi BLOCK DIAGRAM



6. SYSTEM BLOCK DIAGRAM



COMBI SCART

CIRCUIT DIAGRAMS

1. POWER(SMPS) CIRCUIT DIAGRAM

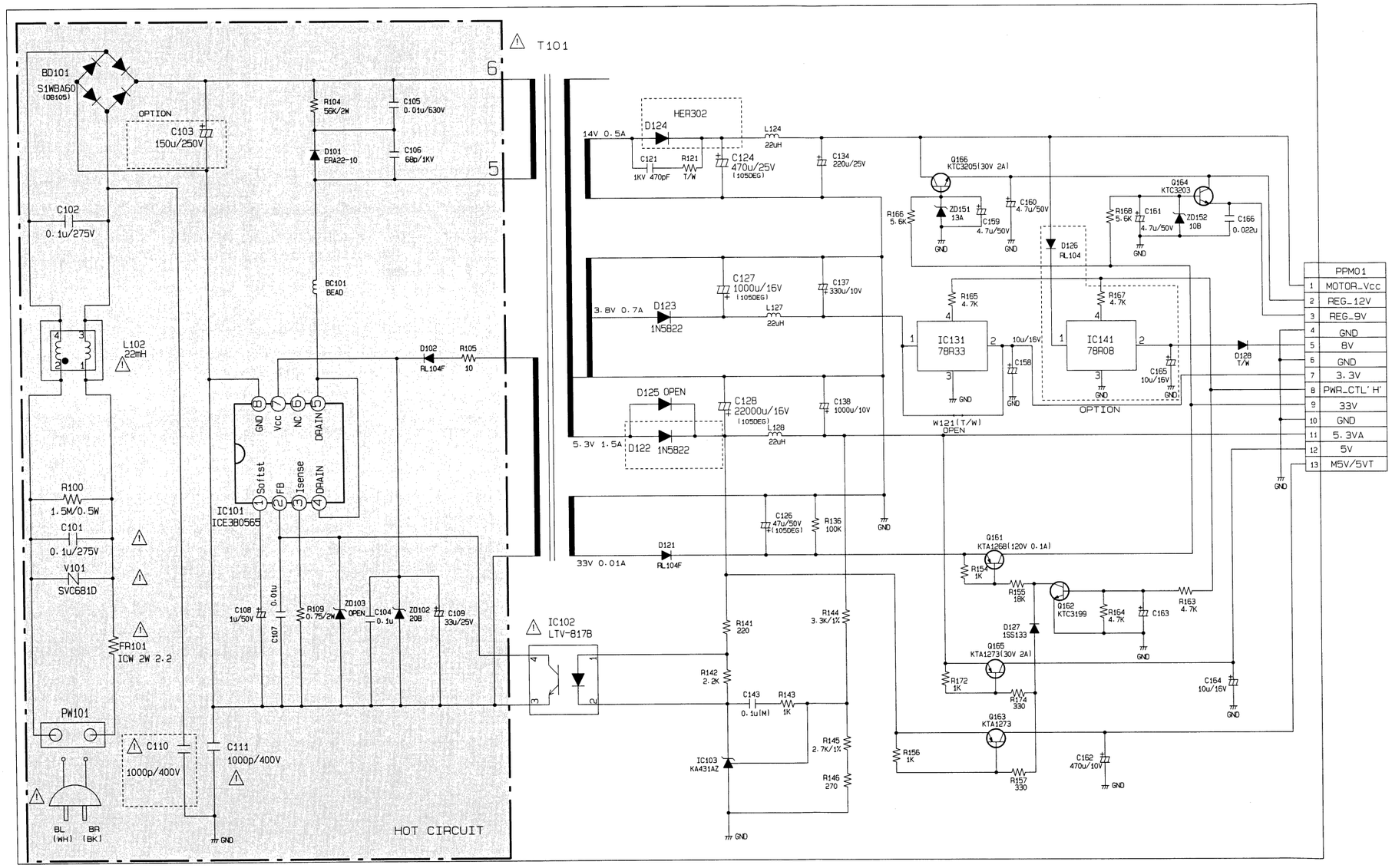
IMPORTANT SAFETY NOTICE

WHEN SERVICING THIS CHASSIS, UNDER NO CIRCUMSTANCES SHOULD THE ORIGINAL DESIGN BE MODIFIED OR ALTERED WITHOUT PERMISSION FROM THE PHILIPS ELECTRONICS CORPORATION. ALL COMPONENTS SHOULD BE REPLACED ONLY WITH TYPES IDENTICAL TO THOSE IN THE ORIGINAL CIRCUIT. SPECIAL COMPONENTS ARE SHADED ON THE SCHEMATIC FOR EASY IDENTIFICATION.

THIS CIRCUIT DIAGRAM MAY OCCASIONALLY DIFFER FROM THE ACTUAL CIRCUIT USED. THIS WAY, IMPLEMENTATION OF THE LATEST SAFETY AND PERFORMANCE IMPROVEMENT CHANGES INTO THE SET IS NOT DELAYED UNTIL THE NEW SERVICE LITERATURE IS PRINTED.

NOTE :

1. Shaded(■) parts are critical for safety. Replace only with specified part number.
2. Voltages are DC-measured with a digital voltmeter during Play mode.



	C103
WIDE	68u/400V
NARROW	150u/250V
C15, 1NDO S.AFRICA	68u/450V

	D124	D122
WIDE	UF5402	D3S6M
NARROW	HER302	1N5822

	C110
N.T	1000p/400V
PAL	OPEN

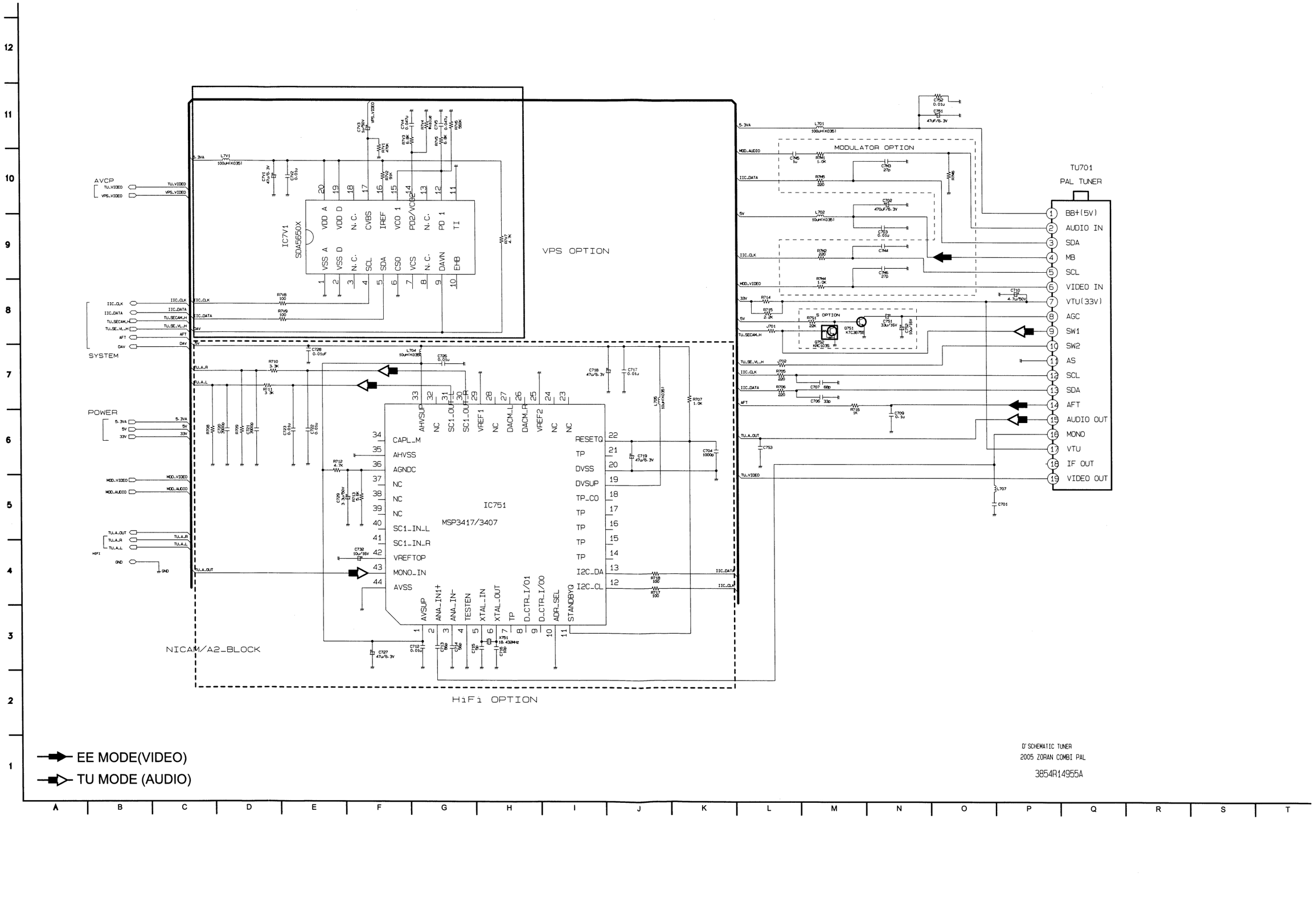
	D126	R167	IC141	C165
ZORAN	OPEN	OPEN	OPEN	OPEN
M.T.K	RL104	4.7K	78R08	10u/16V

NOTES) ⏚ Symbol denotes AC ground.
⏚ Symbol denotes DC chassis ground.

NOTE) ⚠ Warning
Parts that are shaded are critical
With respect to risk of fire or
electricial shock.

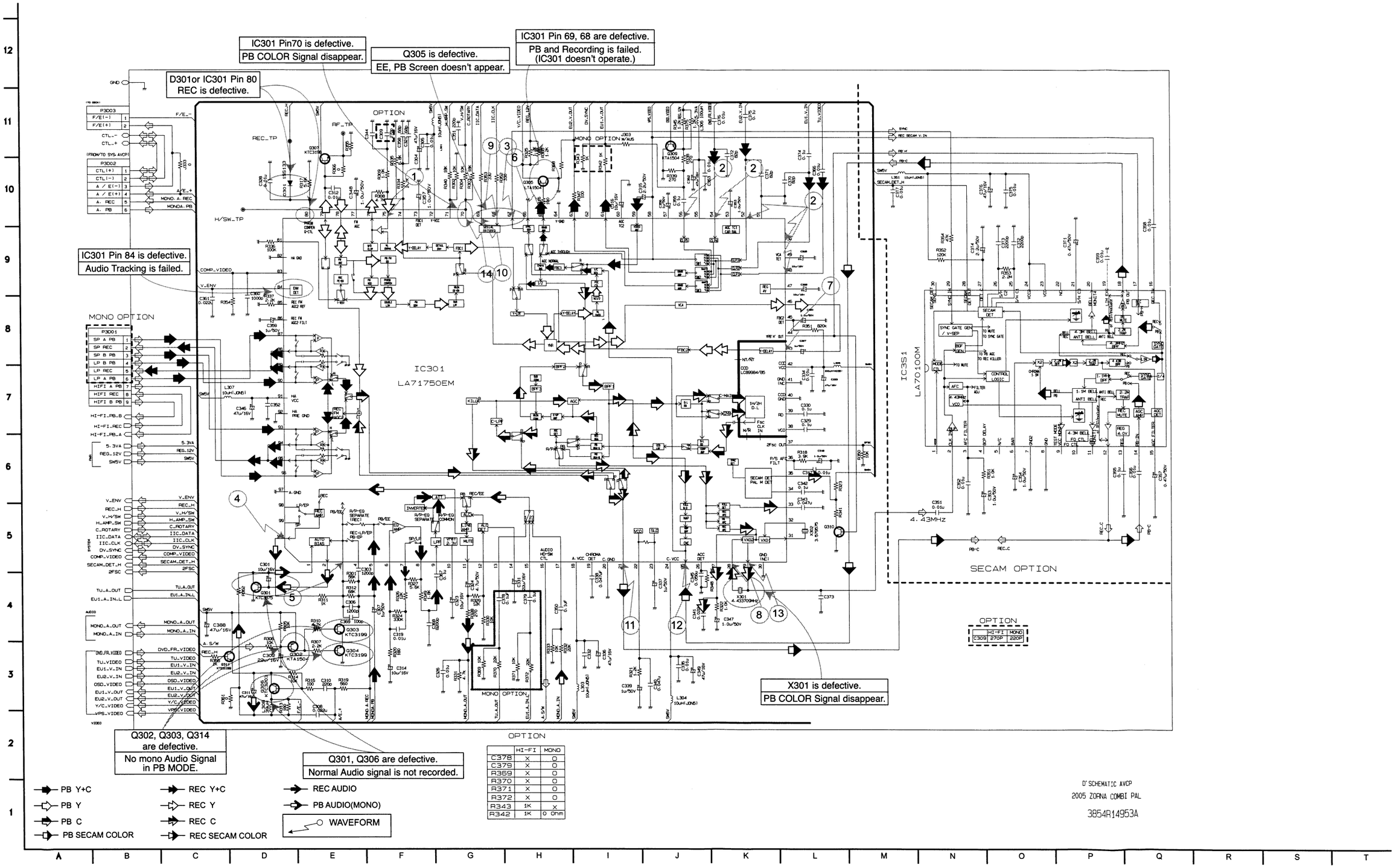
D' SCHEMATIC POWER
V9700' S
2005.02.04
3854R14921A

2. TU/IF CIRCUIT DIAGRAM



D'SCHEMATIC TUNER
2005 ZORAN COMBI PAL
3854R14955A

3. A/V CIRCUIT DIAGRAM



OPTION

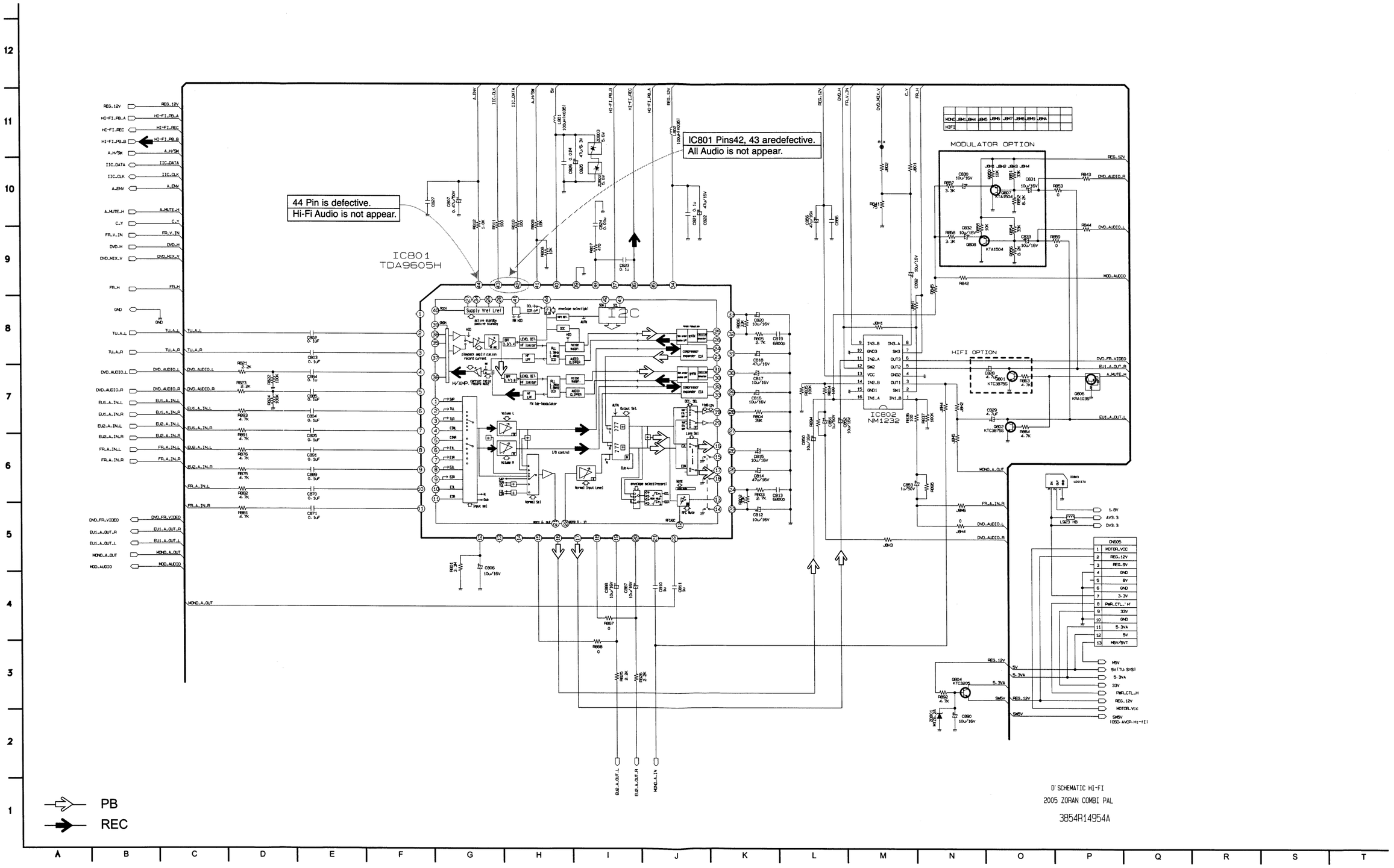
	HI-FI	MONO
C378	X	O
C379	X	O
R369	X	O
R370	X	O
R371	X	O
R372	X	O
R343	1K	X
R342	1K	0 Ohm

OPTION

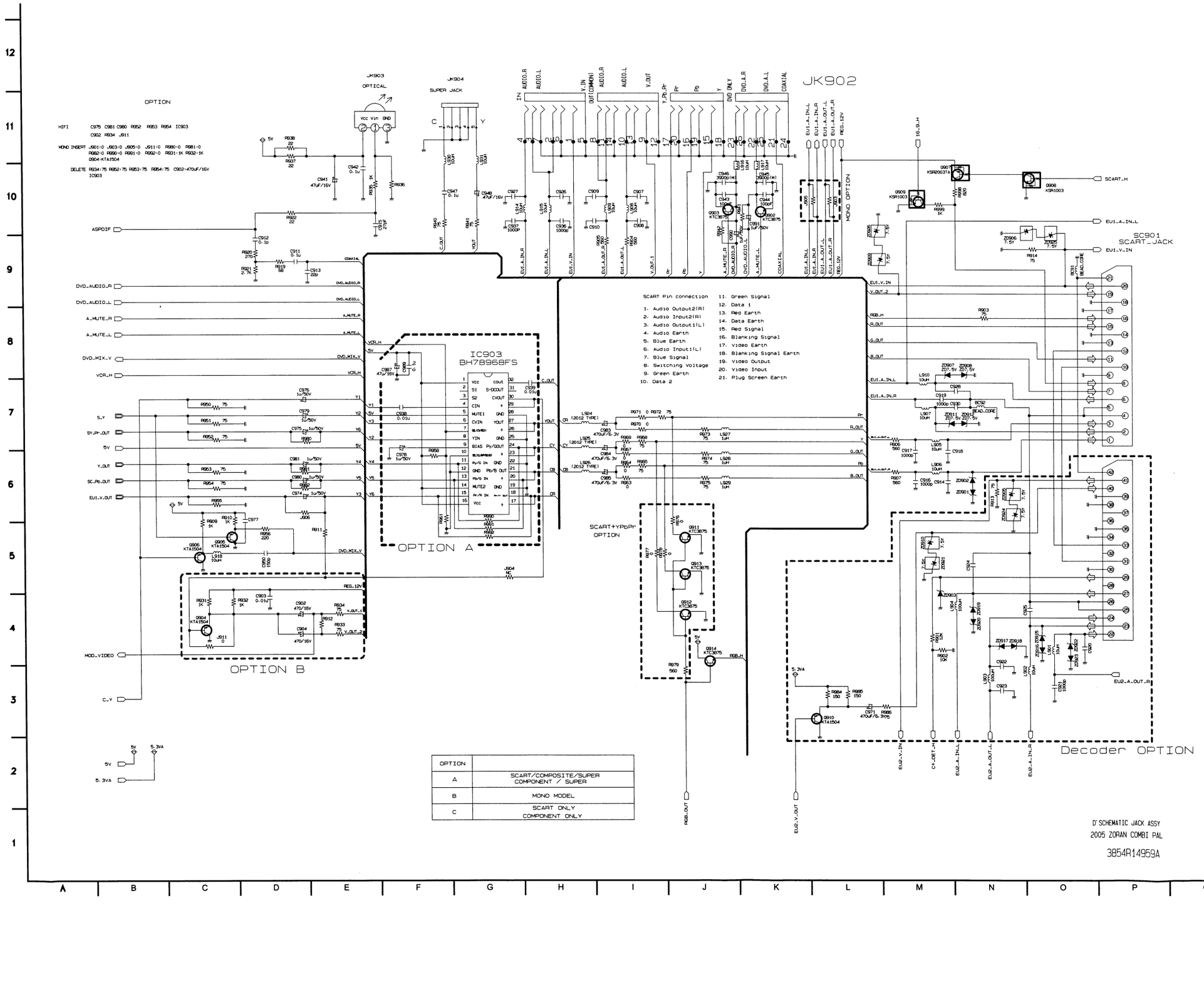
	HI-FI	MONO
C309	27GP	22GP

D' SCHEMATIC AVCP
2005 ZORNA COMBI PAL
3854R14953A

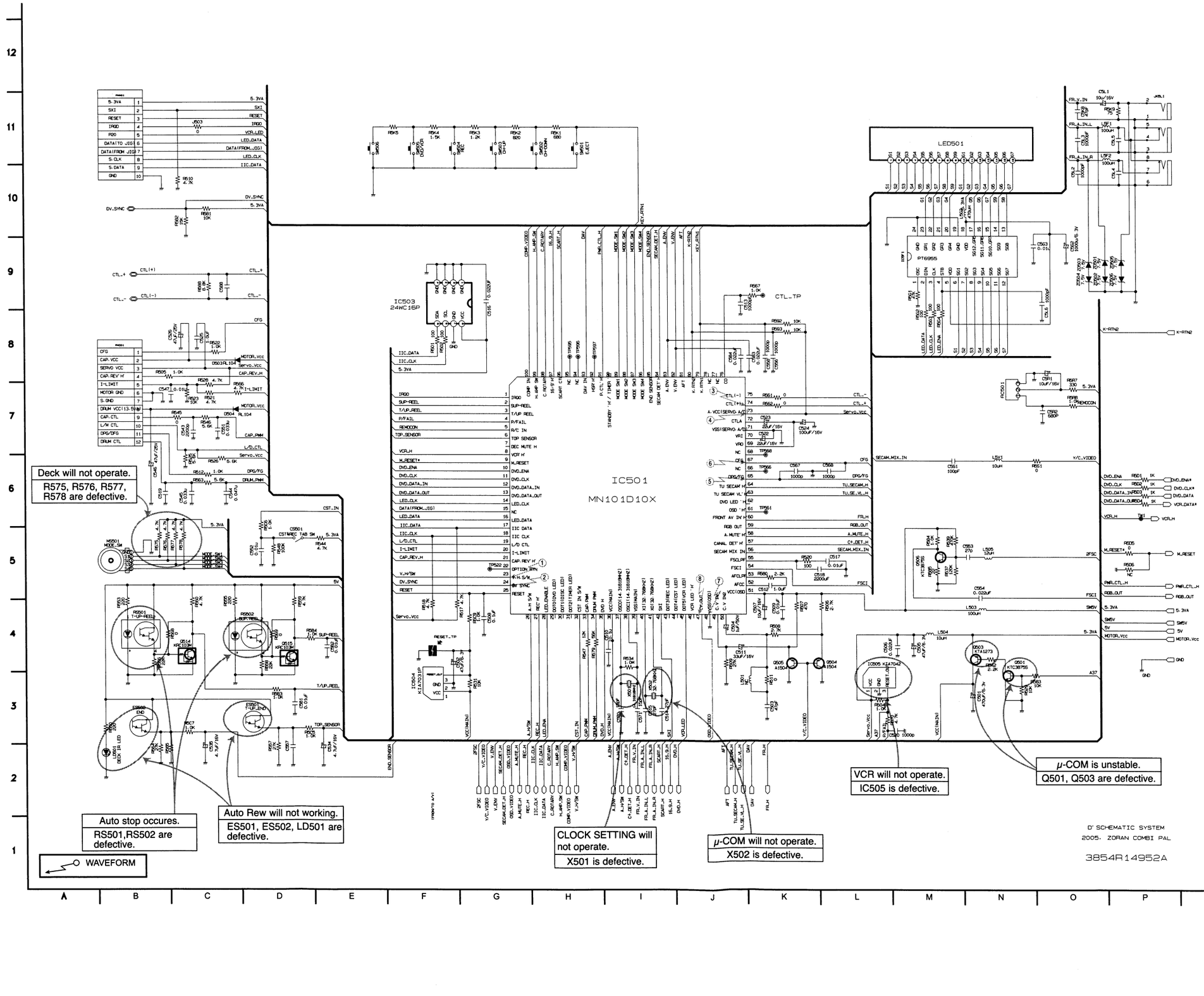
4. Hi-Fi CIRCUIT DIAGRAM



5. SCART(JACK) CIRCUIT DIAGRAM

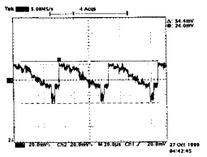


6. SYSTEM CIRCUIT DIAGRAM

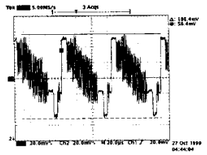


WAVEFORM & VOLTAGE SHEET

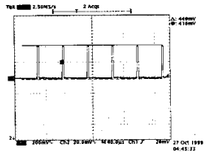
* IC301 Oscilloscope Waveform

① 

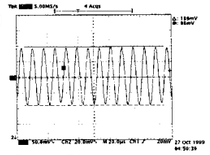
IC301 Pin 75
PB mode
500mvp-p

② 

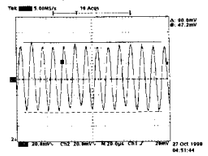
IC301 Pins 48, 50, 54, 56
Video in 1Vp-p

③ 

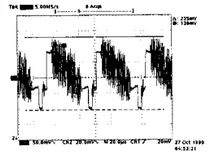
IC301 Pin 67
PB/REC mode
4.0Vp-p

④ 

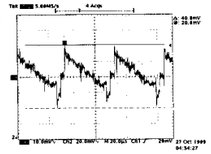
IC301 Pin 100
REC mode
1.1Vp-p

⑤ 

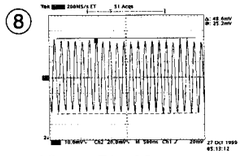
IC301 Pin 3
REC mode
2.0Vp-p

⑥ 

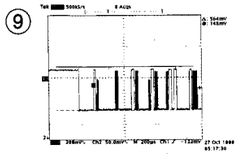
IC301 Pin 65
PB mode
2.02Vp-p

⑦ 

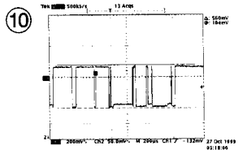
IC301 Pin 43
PB mode
400mVp-p

⑧ 

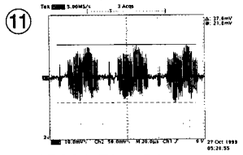
IC301 Pin 28
PB mode
400mVp-p

⑨ 

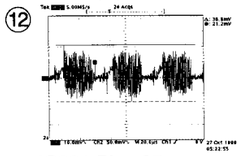
IC301 Pin 68
PB/REC mode
5Vp-p

⑩ 

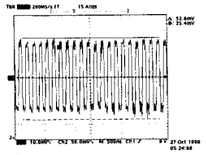
IC301 Pin 69
PB/REC mode
5Vp-p

⑪ 

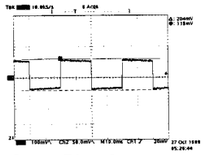
IC301 Pins 21
REC mode
340mVp-p

⑫ 

IC301 Pins 25
PB mode
300mVp-p

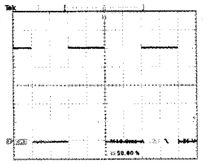
⑬ 

IC301 Pin 29
PB mode
400mVp-p

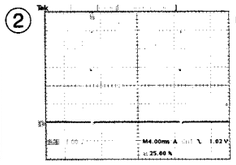
⑭ 

IC301 Pin 70
PB mode
3.6Vp-p

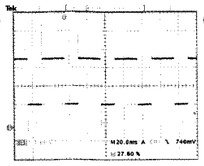
* IC501 Waveform Photographs

① 

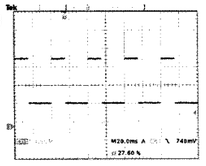
V.HSW
(IC501 Pin 23)
1V/10mS
REC/PB MODE

② 

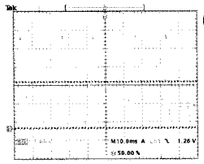
DV.SYNC
(IC501 PIN 24)
1V/100uS
QUE/REV MODE

③ 

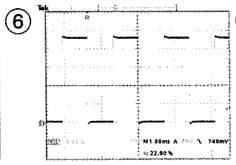
CTL(+)
(IC501 Pin 74)
1V/10mS

④ 

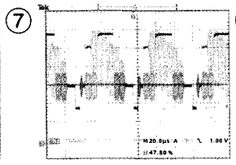
CTL(-)
(IC501 Pin 75)
1V/10mS

⑤ 

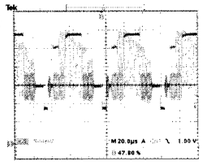
DFG/DFG
(IC501 PIN 65)
1V/10mS
REC/PB MODE

⑥ 

CFG
(IC501 Pin 67)
1V/10mS

⑦ 

V.IN
(IC501 Pin 49)
500mV/20uS

⑧ 

V.OUT
(IC501 Pin 47)
500mV/20uS
EE/PB MODE

• CIRCUIT VOLTAGE CHART

MODE / PIN NO.	EE	PB
IC201		
1	1.6	1.58
2	4.3	2.6
3	4.3	2.6
4	1.62	1.6
5	1.66	1.6
6	2.15	1.6
7	4.3	2.7
8	5.2	5.1
9	5.2	5.1
10	0.01	0.01
11	4.4	2.5
12	4.4	2.6
13	4.3	2.7
14	4.3	2.39
15	4.3	2.67
16	4.3	2.5
17	1.6	3.4
18	1.6	1.8
19	0.01	0.01
20	4.3	2.58
21	5.2	5.18
22	0.01	0.01
23	1.6	1.88
24	4.3	2.58
25	4.3	2.58
26	1.6	1.61
27	1.6	1.61
28	0.01	3.25
IC302		
1	1.28	1.28
2	0.01	0.01
3	1.32	1.32
4	0.03	0.05
5	0.04	0.05
6	5.03	5.03
7	1.32	1.32
8	0.01	0.06
IC401		
1	1.63	1.62
2	0.002	1.08
3	1.64	1.64
4	0.002	0.002
5	0.02	0.01
6	4.92	4.9
7	2.48	2.47
8	2.48	2.48
9	0.002	0.002
10	2.45	2.44
11	4.9	0.008
12	4.9	0.008
13	3.1	0.04
14	3.28	3.28
15	3.28	3.28
16	1.44	1.45

MODE / PIN NO.	EE	PB
IC402		
1	5.51	5.52
2	5.52	5.52
3	5.51	5.47
4	12.12	0.0002
5	5.51	5.52
6	5.52	5.52
7	5.52	5.52
8	0.002	12.13
IC5F1		
1	2.1	2.2
2	4.7	4.77
3	4.7	4.7
4	5	5
5	4.4	4.4
6	2.6	2.6
7	2.5	2.55
8	2.24	2.5
9	2.5	2.5
10	2.3	2
11	2	2.3
12	2.2	1.6
13	0.87	0.85
14	2.28	1.9
15	2.33	2.18
16	2	2.1
17	2	2.2
18	4.43	4.4
19	0.01	0.002
20	2	2
21	1.9	2
22	1.9	2.1
23	2	2.1
24	0.01	0.003
IC601		
1	0.01	1.7
2	3.29	3.26
3	3.29	3.27
4	0.08	0.4
5	0.05	0.4
6	0.05	0.3
7	1.72	1.9
8	1.72	0.8
9	2.78	0.5
10	1.72	0.7
11	0.01	1.6
12	0.01	0.01
13	3.44	3.28
14	0.01	2.1
15	3.43	3.1
16	1.7	2.7
17	3.31	3.1
18	1.7	2.2
19	0.7	1
20	0.01	0.01
21	3.39	3.24

MODE / PIN NO.	EE	PB
22	2.6	2.9
23	3.39	3.25
24	2.4	2.5
25	1.86	1.9
26	1	1.63
27	2.5	1.08
28	0.01	0.01
29	0.01	0.01
30	2.7	1.22
31	0.01	0.05
32	0.01	0.01
33	2.7	3.2
34	3.28	3.24
35	0.4	1.13
36	1.7	1.5
37	2	2.5
38	1.7	3.9
39	0.01	1.2
40	1.7	1.5
41	3.4	3.28
42	0.01	1.5
43	1.7	2.7
44	1.8	3.19
45	1.7	1.6
46	1.7	1.5
47	3.4	3.28
48	1.68	3.04
49	1.68	3.03
50	0.01	0.01
51	3.39	3.27
52	3.39	3.29
53	1.63	1
54	0.13	0.5
55	0.13	1.26
56	0.12	0.5
57	1.64	1
58	3.39	3.28
59	0.12	0.4
60	1.64	1.5
61	0.12	0.4
62	0.01	0.01
63	0.01	0.4
64	1.85	1.8
65	1.38	0.03
66	0.01	0.01
67	0.03	0.34
68	3.39	3.28
69	0.01	0.01
70	3.36	3.22
71	0.09	0.37
72	0.01	0.01
73	0.01	3.23
74	3.37	3.25
75	3.38	3.28
76	3.39	3.28
77	3.38	3.17

MODE / PIN NO.	EE	PB
78	0.01	0.02
79	0.01	0.01
80	1.6	1.49
81	3.39	3.27
82	1.59	1.91
83	0.01	0.01
84	1.4	1.25
85	1.8	1.5
86	1.6	1
87	3.39	3.28
88	1.6	1.3
89	1.8	2
90	1.7	1.5
91	0.01	0.01
92	1.7	1.89
93	0.01	1.8
94	1.3	1.99
95	0.01	0.01
96	1.7	2.2
97	3.39	3.28
98	1.7	1.85
99	1.8	1.3
100	1.6	1.52
101	0.01	0.01
102	1.6	1.81
103	1.6	1.9
104	1.6	1.7
105	3.39	3.28
106	0.01	0.01
107	0.01	0.01
108	0.01	0.01
109	0.01	0.01
110	1.68	1.61
111	0.02	0.01
112	0.02	0.01
113	0.01	1.07
114	0.01	0.01
115	1.69	1.64
116	1.69	1.61
117	0.01	0.01
118	1.65	1.5
119	3.39	3.25
120	0.01	0.01
121	0.01	0.01
122	0.01	0.01
123	0.01	0.01
124	1.7	1.64
125	3.39	3.28
126	0.01	0.01
127	0.07	3.25
128	0.01	0.01
129	0.01	0.01
130	0.01	0.01
131	1.85	2.44
132	3.37	0.06
133	3.38	3.28

MODE / PIN NO.	EE	PB
134	3.38	3.28
135	3.03	0.01
136	0.03	0.01
137	0.01	3.25
138	3.39	3.28
139	0.01	0.01
140	0.01	0.01
141	3.29	3.27
142	1.86	2.45
143	1.66	2.46
144	1.66	2.34
145	0.01	0.01
146	0.01	0.01
147	0.75	1.29
148	0.01	0.01
149	3.37	3.26
150	0.98	1.13
151	0.98	1.13
152	3.36	3.26
153	1.28	1.82
154	1.28	1.81
155	0.01	0.01
156	0.01	0.01
157	1.65	1.31
158	1.65	1.31
159	3.25	3.25
160	2.64	3.23
161	3.25	3.2
162	2.64	3.21
163	3.25	3.21
164	3.25	3.2
165	2.64	3.21
166	0.01	0.01
167	2.64	3.14
168	1.88	2.24
169	0.01	0.01
170	2.64	2.1
171	1.88	2.4
172	2	2.1
173	1.8	2.1
174	1.74	1.91
175	1.71	1.88
176	0.11	0.16
177	0.1	0.38
178	3.15	3.1
179	3.13	2.25
180	0.01	0.01
181	0.01	0.01
182	1.8	2.1
183	0.01	3.24
184	0.01	0.01
185	0.01	0.2
186	3.29	3.28
187	3.28	3.28
188	0.01	0.02
189	0.01	0.01

MODE / PIN NO.	EE	PB
190	0.1	0.1
191	1.2	1.4
192	3.3	3.28
193	0.01	0.01
194	0.01	0.01
195	1.7	1.58
196	1.8	1.6
197	0.01	0.01
198	1.4	2.41
199	3.3	3.28
200	0.01	0.01
201	0.01	0.01
202	1.51	1.52
203	3.9	2.9
204	3.3	3.28
205	0.01	3.28
206	3.24	3.28
207	3.25	3.27
208	3.24	0.39
IC602		
1	3.28	3.27
2	1.86	1.2
3	1.87	1.5
4	0	0.01
5	1.58	1.1
6	1.8	1.5
7	3.28	3.27
8	1.5	1.8
9	1.78	1.2
10	0.01	0.01
11	2.17	1.3
12	0.28	0.5
13	3.28	3.27
14	0.01	0.01
15	3.27	3.16
16	3.27	0.2
17	3.26	3.24
18	3.25	3.21
19	0.14	0.5
20	1.56	2.1
21	0.12	0.3
22	0.12	0.29
23	0.01	0.37
24	0	0.4
25	3.31	3.2
26	0.01	0.01
27	1.59	101
28	0.11	1.1
29	1.62	1.1
30	0.01	1.1
31	0.19	0.02
32	0.01	0.2
33	0.01	0.02
34	3.36	3.2
35	1.56	1.52
36	0.01	0.01

MODE / PIN NO.	EE	PB
37	0.01	0.02
38	3.38	3.28
39	1.56	1.8
40	1.75	1.17
41	0.01	0.002
42	1.62	1.17
43	1.42	1.1
44	3.41	3.28
45	1.31	1.9
46	1.78	1.8
47	0	0.001
48	1.55	1.7
49	0.54	1.1
50	0.01	0.001
IC604		
1	0.01	1.7
2	0.01	1.2
3	0.01	0.01
4	0.01	1.8
5	0.01	0.5
6	3.29	3.2
7	0.01	3.2
8	3.29	3.2
9	0.01	0.003
10	0	0.27
11	3.2	3.2
12	3.2	3.2
13	3.2	3.2
14	3.2	3.2
15	1.25	2.1
16	0.01	0.002
17	0.02	3.2
18	0.003	3.2
19	0.002	3.2
20	3.29	3.2
21	3.29	0.002
22	3.29	0.002
23	3.29	3.2
24	3.25	3.2
25	3.25	3.2
26	3.29	3.2
27	0.01	0.002
28	3.2	3.2
29	2.9	2.9
30	2.9	2.9
31	2.8	2.9
32	2.8	1.2
33	2.8	1.2
34	2.8	2.8
35	2.86	2.8
36	0.01	0.01
37	3.29	3.28
38	2.9	0.68
39	2.9	2.9
40	2.84	2.9
41	2.86	2.9

MODE / PIN NO.	EE	PB
42	2.85	3.28
43	2.88	2.9
44	2.85	2.87
45	2.85	2.87
46	0.01	0.01
47	3.29	3.28
48	0.002	3.28
IC605		
1	0.001	0.001
2	0.001	0.001
3	0.001	0.001
4	0.001	0.001
5	3.27	0.04
6	3.28	3.28
7	0.001	0.001
8	3.29	3.28

MODE / PIN NO.	EE	PB	REC
56	2.24 V	2.57 V	2.22 V
57	1.95 V	2.28 V	0.006 V
58	3 V	2.55 V	3.01 V
59	2.9 V	2.93 V	2.92 V
60	1.47 V	1.54 V	1.48 V
61	1.8 V	2.44 V	1.79 V
62	0.087 V	0.09 V	0.088 V
63	1.8 V	2.55 V	1.78 V
64	0.002 V	0.003 V	0.006 V
65	1.71 V	0.002 V	1.69 V
66	0.002 V	0.003 V	0.006 V
67	0.005 V	0.07 V	0.44 V
68	4.8 V	4.8 V	4.78 V
69	4.7 V	4.7 V	4.7 V
70	7.75 V	2.55 V	5.55 V
71	5.55 V	0.008 V	0.008 V
72	4.84 V	4.8 V	4.72 V
73	2.21 V	2.2 V	2.24 V
74	2.45 V	2.6 V	2.43 V
75	2.38 V	0.72 V	2.38 V
76	2.4 V	0.81 V	2.39 V
77	1.58 V	1.6 V	1.48 V
78	2.44 V	3.35 V	2.33 V
79	1.73 V	1.67 V	2.51 V
80	0.98 V	0.98 V	4.46 V
81	1.1 V	1.13 V	1.15 V
82	0.003 V	0.004 V	0.006 V
83	1.65 V	1.03 V	1.41 V
84	0.258 V	2.5 V	0.014 V
85	0.002 V	0.003 V	1.38 V
86	0.251 V	0.014 V	1.98 V
87	0.77 V	0.78 V	0.78 V
88	0.77 V	0.78 V	0.77 V
89	0.77 V	0.78 V	0.77 V
90	0.77 V	0.78 V	0.77 V
91	4.85 V	4.83 V	4.74 V
92	2.1 mV	0.004 V	0.006 V
93	1.7 V	1.72 V	3.94 V
94	1.7 V	1.71 V	3.93 V
95	1.7 V	1.71 V	3.92 V
96	1.7 V	1.71 V	3.94 V
97	0.002 V	0.005 V	0.006 V
98	2.16 V	2.16 V	2.21 V
99	2.16V	2.16 V	2.25 V
100	2.16 V	2.16 V	2.31 V
IC501			
1	0	0.1	0
2	4.93	4.9	4.2
3	4.93	4.9	4.8
4	4.76	4.7	4.7
5	4.78	4.7	4.75
6	0	0	0
7	0	0	0
8	5.12	5.1	5.1
9	5	5	4.9
10	4.16	4.98	1.3

MODE / PIN NO.	EE	PB	REC
11	4.16	3.19	3.19
12	4.15	3.19	3.1
13	2.4	2.6	2.68
14	5.12	5.1	5.1
15	1.7	1.6	1.8
16	0	0	0
17	5.18	5	5
18	5.1	5	5
19	2.6	2.5	2.56
20	0	0	0
21	0	0	0
22	1.9	2.2	1.8
23	2	2.57	2.57
24	0.1	0	0
25	5.1	5.1	5
26	2.6	2.5	2.53
27	0	0	4.6
28	4.85	4.85	4..84
29	0	0	0
30	0	0	0
31	0	0	0
32	0	0	0
33	0	2.67	2.68
34	0	2.5	2.63
35	0	0	0
36	5.1	5.1	5.13
37	5.14	2.56	2.57
38	2.34	2.4	2.38
39	0	0	0
40	5.1	1.96	2.23
41	2.5	2.5	2.53
42	0	0	0
43	0	0	5.1
44	5.1	5.1	5.1
45	5.1	5.1	5.1
46	0	0	0
47	1.6	1..6	1.6
48	0	0	0
49	1.43	1.86	1.27
50	2.13	2.44	2.63
51	5	5	4.9
52	2.97	2.43	2.96
53	2.45	2.46	2.41
54	2.4	2.43	2.39
55	2	2	1.94
56	0	0	0
57	0	0	0
58	4.4	0	4.5
59	0	0	0
60	5	4.7	5
61	4.73	4.7	4.7
62	0	0	0
63	0	0	0
64	5	5	0
65	0	0	1.3
66	1.7	2.4	1.9

MODE / PIN NO.	EE	PB	REC
67	2.56	2.2	1.4
68	0.2	1.8	2.4
69	2.57	2.56	1.58
70	2.57	2.56	2.56
71	0	0	0
72	2.57	2.57	2.55
73	5.1	5.1	5.1
74	2.5	2.5	2.88
75	2.5	2.5	2.2
76	2.5	2.5	2.56
77	0	0	0
78	0	0	0
79	5.13	5.1	5.1
80	5.13	5.1	5.1
81	4.4	4.4	4.4
82	0	2.4	0
83	0	2.1	0
84	0	0	0
85	0	0	0
86	5.1	5.1	5.1
87	5.1	5.1	5.1
88	5.1	5.1	5.1
89	0	0	0
90	5	5	5.1
91	5.1	5.1	4.97
92	0	0	0
93	5	5	5.1
94	0	0	1.9
95	0	0	0
96	5	5	5
97	0	0	0
98	5	5	2.5
99	0	0	0
100	0	0	0.8
IC801			
1	3.8 V	3.81 V	3.82 V
2	3.8 V	3.82 V	3.82 V
3	3.8 V	3.82 V	3.82 V
4	3.8 V	3.82 V	3.82 V
5	3.8 V	3.82 V	3.82 V
6	3.8 V	3.82 V	3.82 V
7	3.8 V	3.82 V	3.82 V
8	3.8 V	3.82 V	3.82 V
9	3.8 V	3.82 V	3.82 V
10	3.8 V	3.82 V	3.82 V
11	3.8 V	3.82 V	3.82 V
12	0.054 V	~	0.048 V
13	3.87 V	3.8 V	3.99 V
14	0.008 V	0.003 V	0.011 V
15	0.008 V	0.006 V	0.01 V
16	6 V	6.07 V	6.07 V
17	6 V	6.07 V	6.08 V
18	7 V	6.07 V	0.11 V
19	6 V	6.06 V	0.028V
20	6 V	6.07 V	6.07 V
21	4.58 V	4.57 V	5.9 V

MODE / PIN NO.	EE	PB	REC
22	3.82 V	3.82 V	3.82 V
23	3.86 V	3.84 V	3.86 V
24	3.87 V	3.84 V	3.87 V
25	3.87 V	3.9 V	3.87 V
26	0.76 V	0.003 V	0.76 V
27	0.001 V	0.003 V	0.005 V
28	3.84 V	3.83 V	3.83 V
29	3.86 V	3.86 V	3.86 V
30	0.77 V	0.76V	0.76 V
31	3.87 V	3.87 V	3.86 V
32	3.86 V	3.87 V	3.87 V
33	3.86 V	3.86 V	3.86 V
34	11.84 V	11.76 V	11.77 V
35	0.64 V	0.44 V	4.3 V
36	0.64 V	0.62 V	4.3 V
37	0.64 V	0.63 V	4.28 V
38	0.005 V	0.008 V	4.32 V
39	0.002 V	0.005 V	0.006 V
40	5 V	5.07 V	5.05 V
41	0.005 V	0.92 V	0.92 V
42	4.7 V	4.7 V	4.7 V
43	4.8 V	4.8 V	4.8 V
44	0.078 V	3.3 V	0.068 V
IC802			
1	3.82	3.82	3.82
2	3.82	3.82	3.82
3	3.82	3.82	3.82
4	3.82	3.82	3.82
5	3.82	3.82	3.82
6	3.82	3.82	3.82
7	3.82	3.82	3.82
8	3.82	3.82	3.82
9	3.82	3.82	3.82
10	3.82	3.82	3.82
11	3.82	3.82	3.82
12	0.53	0	0
13	3.9	3.87	3.91
14	0	0	0
15	0	0	0
16	6	6	6.08
17	6	6.09	6.08
18	0	0	0
19	6	6.08	6.09
20	6	6.09	6.09
21	4.6	6	4.59
22	3.82	3.82	3.82
23	3.87	3.79	3.86
24	3.87	3.88	3.88
25	3.87	3.11	3.87
26	0.75	0	0.75
27	0	0	0
28	3.84	3.84	3.84
29	2.64	3.87	3.87
30	0.74	0.74	0.73
31	3.88	3.88	3.88
32	3.88	3.82	3.88

MODE / PIN NO.	EE	PB	REC
33	3.86	3.8	3.87
34	12	12.3	12.2
35	0.6	0.64	4.24
36	0	0.63	0
37	0.62	0.63	4.24
38	0	0	4.28
39	0	0	0
40	5	5	5
41	0	0.9	0.9
42	4.95	4.87	4.83
43	4.86	4.79	4.78
44	0.06	0.7	0.14
Q305			
BASE	1.8	1.82	1.9
EMITER	2.5	2.5	2.54
COLECTOR	0	0	0
Q801			
BASE	0.68	-2	0.68
EMITER	0	0	0
COLECTOR	0	-0.42	0
Q802			
BASE	0.68	-2.05	0.68
EMITER	0	0	0
COLECTOR	0	-0.34	0
Q902			
BASE	0.76	0.76	0.76
EMITER	0	0	0
COLECTOR	0	0	0
Q903			
BASE	0.76	0.76	0.76
EMITER	0	0	0
COLECTOR	0	0	0
Q905			
BASE	0.39	0.4	0.39
EMITER	1.03	1.02	1.02
COLECTOR	0	0	0
Q910			
BASE	3.6	2	3.6
EMITER	4.22	2.7	4.28
COLECTOR	0	0	0
Q911			
BASE	0	0	0
EMITER	0	0	0
COLECTOR	3.12	3.24	3.18
Q912			
BASE	0	0	0
EMITER	0	0	0
COLECTOR	2.64	3.24	3.21
Q913			
BASE	0	0	0
EMITER	0	0	0
COLECTOR	3.54	3.05	3.29

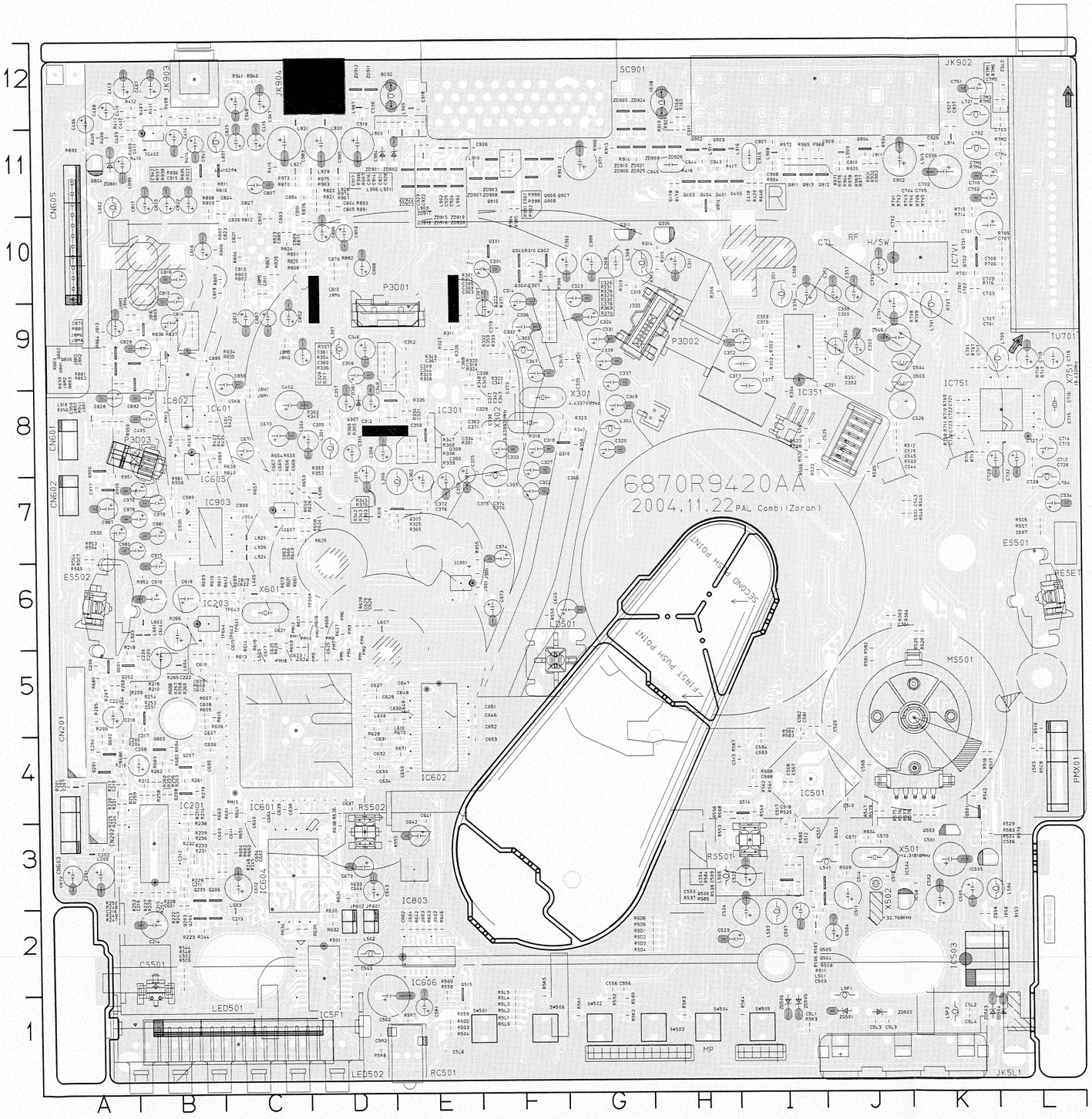
Transistor	STOP +	STOP -	PLAY +	PLAY -
C201	5.14	0	5.15	0
C208	3.26	3.12	3.24	2.29
C209	3.26	3.12	3.24	3.11
C214	5.26	0	5.2	0
C221	0	2.11	0	2.11
C310	0.00	0.00	0.00	0.00
C311	2.34	0.38	2.32	0.00
C312	2.34	0.00	2.32	0.00
C315	2.35	0.00	2.33	0.00
C318	2.30	0.00	2.30	0.00
C319	1.54	0.00	1.63	0.00
C324	3.04	1.74	3.00	1.46
C325	5.04	0.00	5.00	0.00
C327	1.45	0.00	1.59	0.00
C328	2.28	0.00	2.28	0.00
C329	2.27	0.49	2.27	0.53
C330	4.02	0.00	4.02	0.00
C331	2.57	1.74	2.27	1.74
C332	2.64	0.00	2.73	0.00
C333	2.95	2.20	2.96	2.25
C334	3.07	0.00	3.08	0.00
C335	2.53	0.01	2.42	0.00
C339	4.90	0.00	4.96	0.00
C362	0.00	0.00	0.00	0.00
C363	0.16	0.00	0.12	0.00
C367	2.27	1.78	2.27	1.33
C402	4.69	0	4.92	0
C405	2.35	0	2.45	0
C406	5.47	2.37	5.44	2.48
C407	5.47	0	5.44	0
C408	5.47	2.37	5.44	2.48
C413	11.9	0	12	0
C414	5.17	0.01	5.44	0
C415	5.47	0.01	5.44	0
C500	5.2	0	5.19	0
C503	5.04	0	5.04	0
C516	4.83	0	4.82	0
C526	13.89	0	13.8	0
C531	3.26	2.1	3.39	2.2
C534	4.38	0	4.38	0
C535	4.4	0	4.4	0
C546	13.95	0	14	0
C561	5.22	0	5.19	0
C578	2.6	0	2.59	0
C579	2.6	0	2.59	0
C584	2.6	0	2.59	0.01
C586	5.21	0	5.17	0
C592	5.21	0	5.18	0
C5G1	4.7	0	4.43	0
C612	3.26	0	3.25	0
C614	3.23	0	3.22	0
C616	3.24	0	3.23	0
C618	1.8	0	1.8	0
C642	1.81	0	1.81	0
C643	3.26	0	3.25	0
C646	3.26	0	3.25	0

Transistor	STOP +	STOP -	PLAY +	PLAY -
C673	3.26	0	3.25	0
C701	16	0	16	0
C702	4.98	0	4.97	0
C702	4.99	0.00		
C710	32.00	0.00		
C712			5.79	0
C712	5.78	0.00		
C801	4.3	0.01	4.29	0
C806	3.82	0	3.82	0
C807	3.85	0	3.85	0
C808	3.16	0	3.15	0
C816	2.53	0	2.54	0
C821	9.3	0	9.3	0
C826	0.26	0	0.61	0
C828	5.15	0	5.14	0
C829	2.55	0	2.55	0
C830	0.47	0	0.47	0
C831	2.57	0	2.57	0
C840	5.1	0	5.11	0
C842	5.1	0	5.15	0
C843	2.56	0	2.54	0
C846	2.58	0	2.54	0
C847	0.47	0	0.47	0
C851	4.28	0.02	4.2	0.1
C866	2.53	0	2.52	0
C871	2.59		2.59	0
C873	1.22	0	1.22	0
C876	3.84	0	3.84	0
C877	2.05	0	2.05	0
C879	4.54	0	4.53	0
C880	2.44	0	2.49	0
C881	3.85	0	3.84	0
C882	9.3	0	9.3	0
C883	3.18	0	3.15	0
C886	3.84	0	3.84	0
C887	4.07	0	4.08	0
C888	3.86	0	3.85	0
C889	3.9	0	3.92	0
C902	1.12	1	1.12	1
C902	1.10	0.91		
C903	0.9	0.78	0.94	0.77
C904	1.4	1.28	1.41	1.28
C904	1.23	1.13		
C911	2.4	0	2.68	0
C911	2.91	0.00		
C916	5.11	0	5.12	0

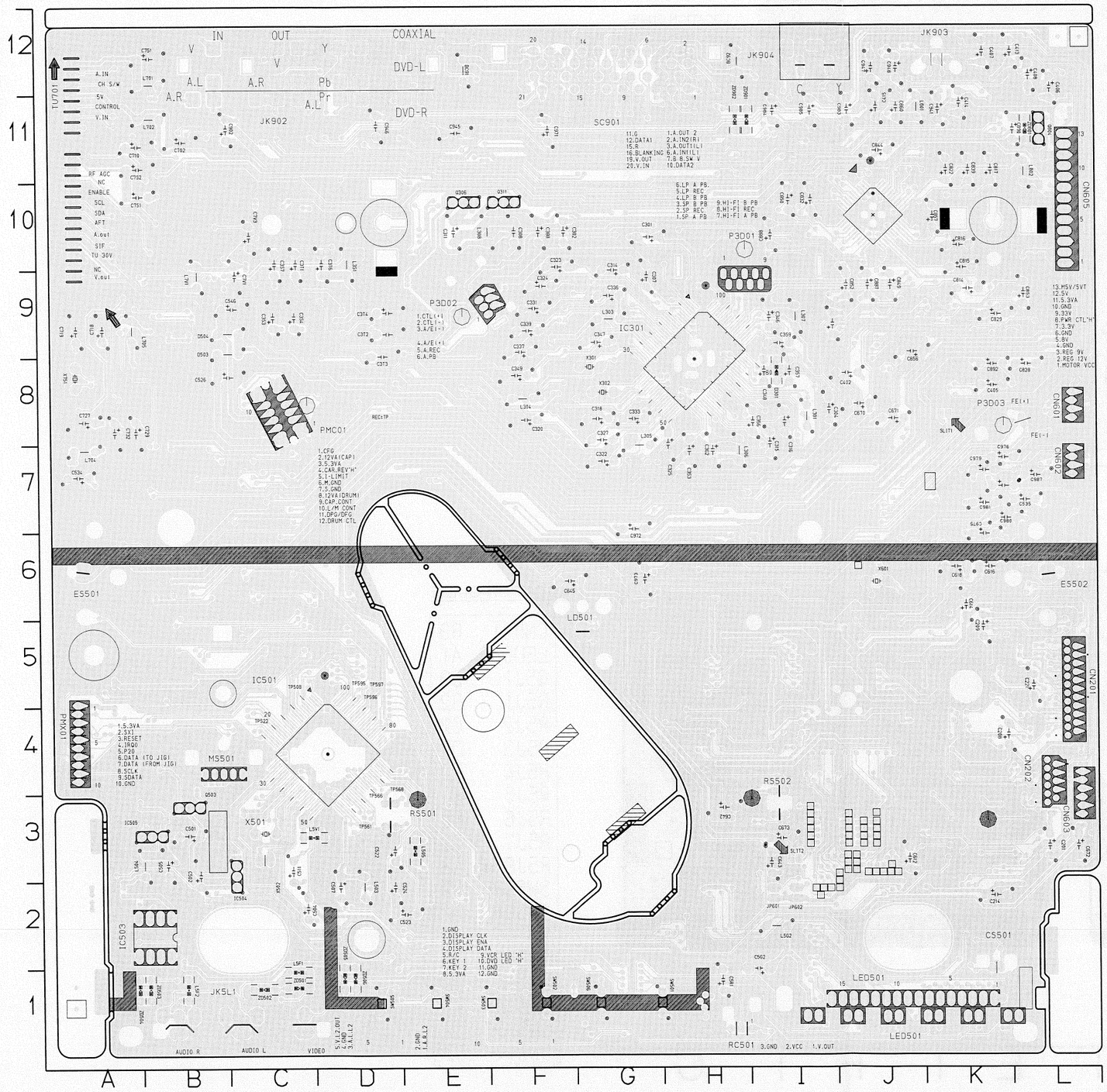
Transistor	STOP			PLAY		
	Base	Emitter	Collector	Base	Emitter	Collector
Q201	3.1	3.28	0.009	2.28	3.05	2.34
Q202	3.14	3.28	0.01	3.1	3.25	0.6
Q203	4.9	0.01	4.9	4.86	5.1	4.85
Q204	4.9	0.04	4.9	4.86	5.2	4.86
Q205	0.003	0.002	4.9	0.003	0.003	4.8
Q206	0.003	0.002	4.9	0.003	0.016	4.86
Q301	4.4	5.08	4.98	4.4	5.08	4.98
Q302	0.74	0.006	0.001	0.74	0.006	0.001
Q303	0.72	0.006	0.008	0.72	0.006	0.008
Q306	1.63	2.22	0.01	1.63	2.22	0.01
Q307	2.15	1.48	0.001	2.15	1.48	0.001
Q308	0.01	4.99	5.24	4.51	3.85	5.23
Q311	0.00	0.00	0.00	-2.20	0.24	3.51
Q403	0.002	1.55	0.76	0.002	0.009	-0.4
Q404	0.002	1.6	0.76	0.002	0.009	-0.6
Q405	2.54	3.27	3.25	3.23	3.26	-0.4
Q501	0.009	0.002	0.02	0.009	0.002	0.02
Q504	2.15	2.83	0.002	2.15	2.83	0.002
Q505	1.63	1.65	5.15	1.63	1.65	5.15
Q507	2.15	2.8	0.002	2.15	2.8	0.002
Q550	0.01	0.002	1.66	0.01	0.002	1.66
Q901	0.76	0.002	0.008	-0.48	0.002	0.004
Q701	5.78	5.03	5.24			

PRINTED CIRCUIT DIAGRAMS

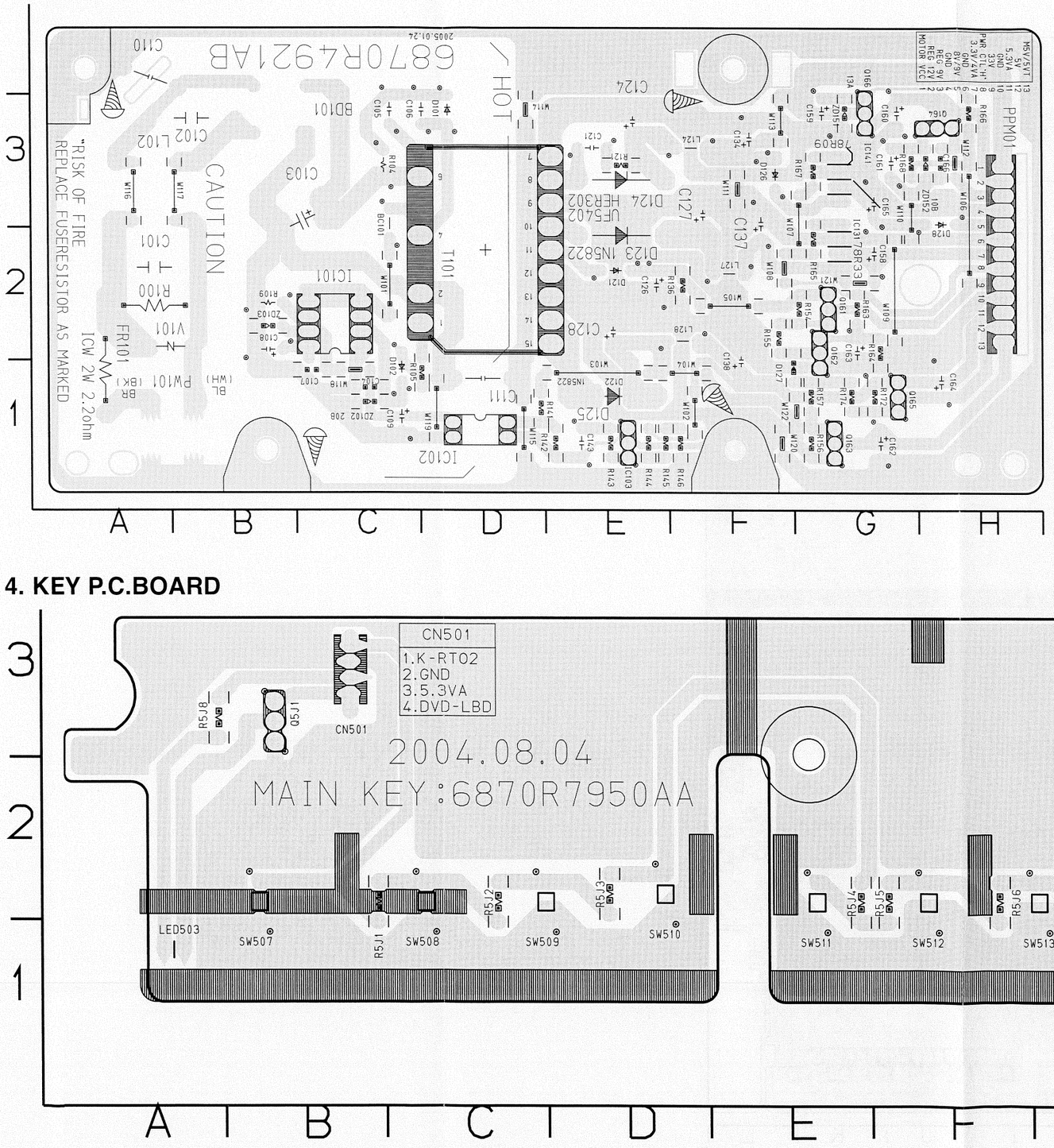
1. MAIN P.C.BOARD (TOP SIDE)



2. MAIN P.C.BOARD (BOTTOM SIDE)



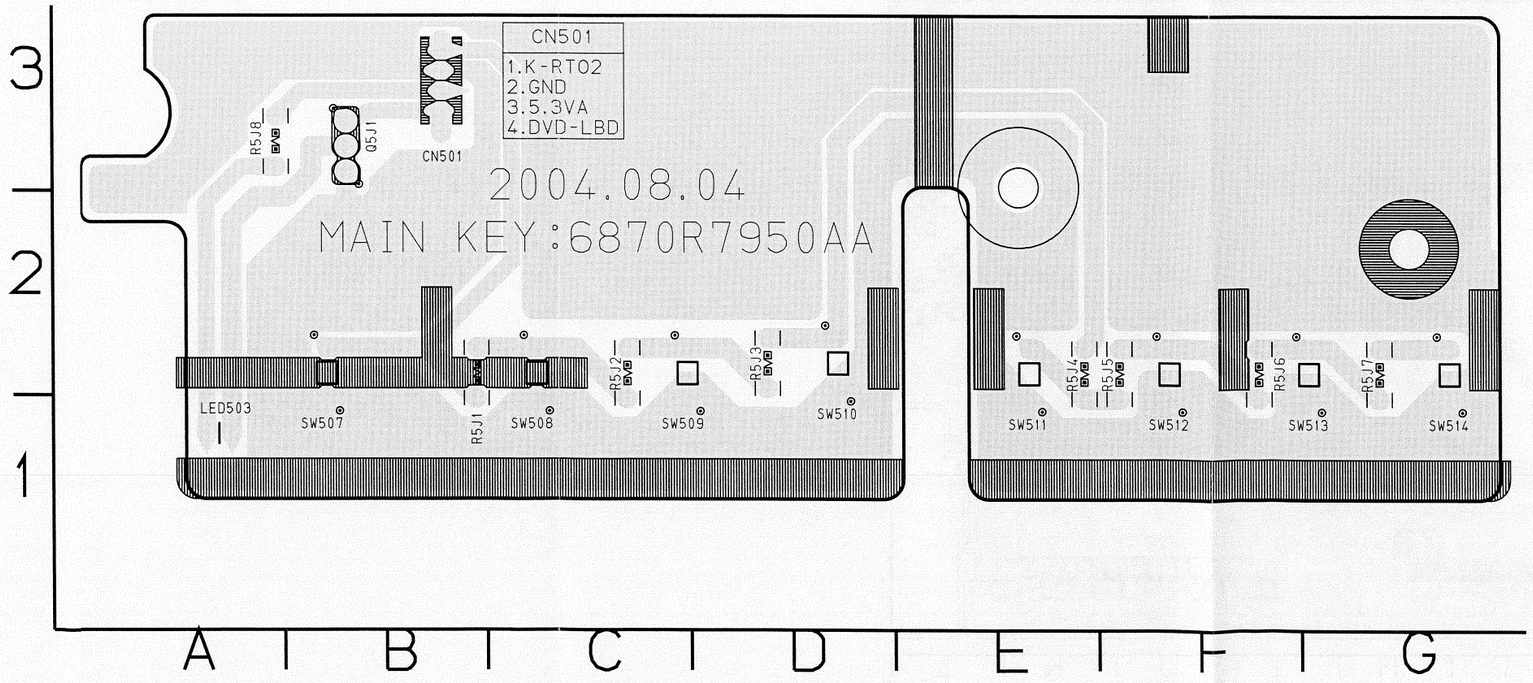
3. POWER P.C.BOARD



LOCATION GUIDE

BC101	C3	IC131	G2
BD101	B3	IC141	G3
C101	A2	L102	A3
C102	B3	L124	F3
C103	C3	L127	F2
C104	C1	L128	F2
C105	C3	PPM01	H3
C106	D3	PW101	B1
C107	C1	Q161	G2
C108	B2	Q162	G2
C109	C1	Q163	G1
C110	A4	Q164	H3
C111	D1	Q165	G1
C121	E3	Q166	G3
C124	E3	R100	A2
C126	E2	R104	C3
C127	F3	R105	D1
C128	E2	R109	B2
C134	F3	R121	E3
C137	F3	R136	F2
C138	F1	R141	D1
C143	E1	R142	E1
C158	G2	R143	E1
C159	G3	R144	E1
C160	G3	R145	E1
C161	G3	R146	F1
C162	G1	R154	G2
C163	G2	R155	F2
C164	H1	R156	G1
C165	G3	R157	G1
C166	H3	R163	G2
D101	D3	R164	G2
D102	C1	R165	G2
D121	E2	R166	H3
D122	E1	R167	G3
D123	E2	R168	G3
D124	E3	R172	G1
D125	E1	R174	G1
D126	F3	T101	D2
D127	F1	V101	A2
D128	H3	ZD102	C1
FR101	A1	ZD103	B2
IC101	C2	ZD151	G3
IC102	D1	ZD152	H3
IC103	E1		

4. KEY P.C.BOARD

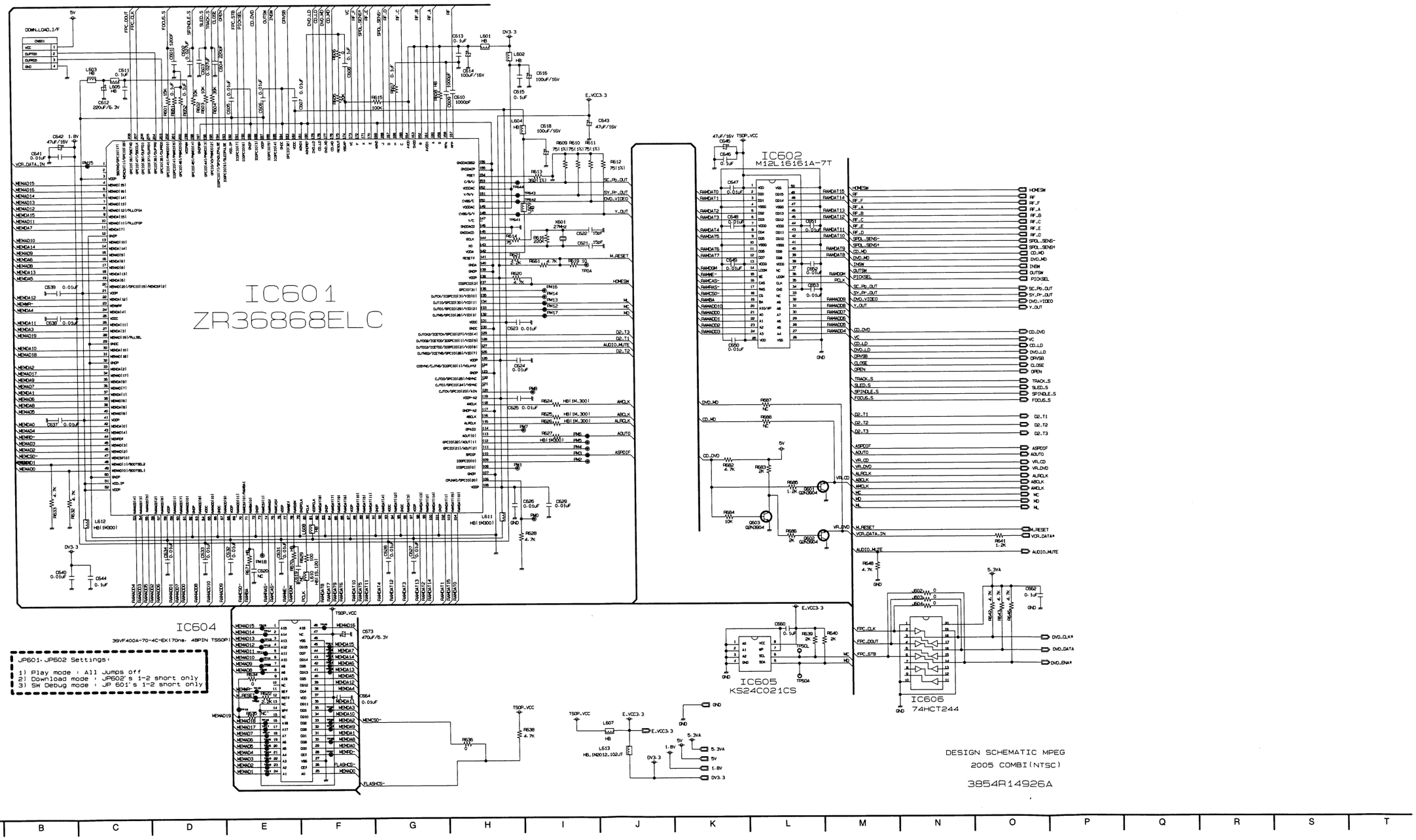


LOCATION GUIDE

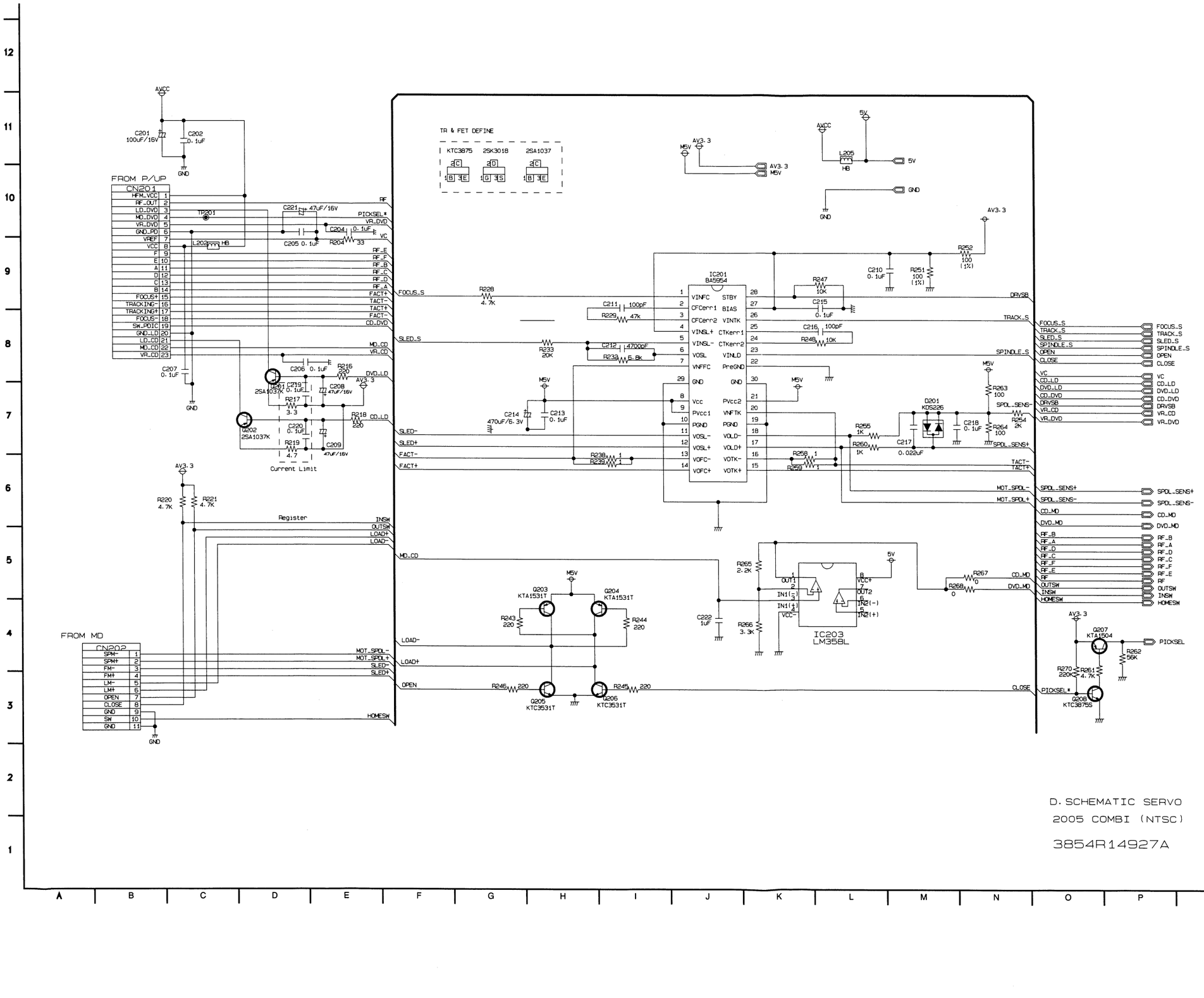
CN501	B3
LED503	A1
Q5J1	B3
R5J1	B2
R5J2	C2
R5J3	D2
R5J4	E2
R5J5	F2
R5J6	F2
R5J7	G2
R5J8	A3
SW507	B2
SW508	C2
SW509	C2
SW510	D2
SW511	E2
SW512	F2
SW513	G2
SW514	G2

CIRCUIT DIAGRAMS

1. SYSTEM CIRCUIT DIAGRAM



2. SERVO CIRCUIT DIAGRAM

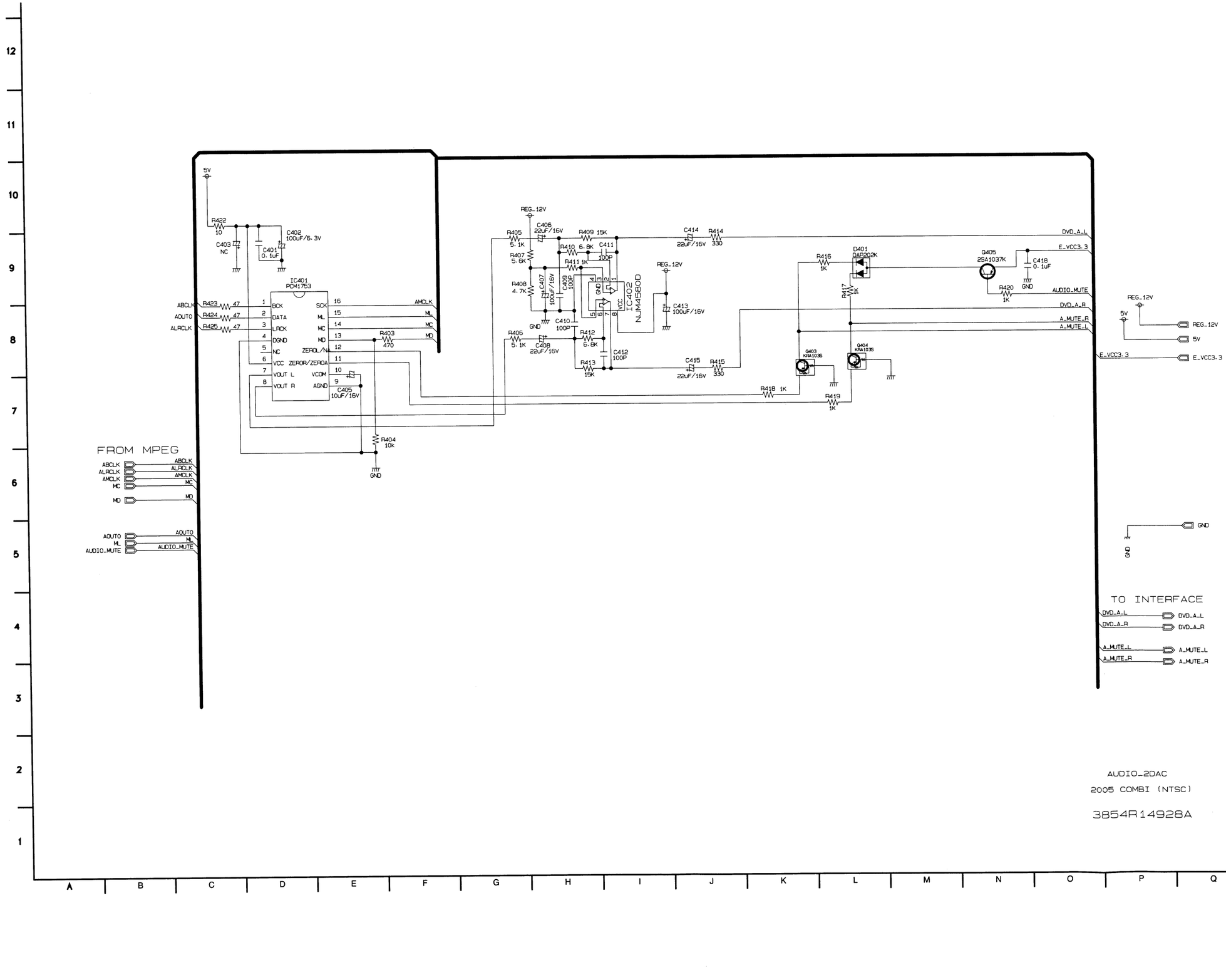


D. SCHEMATIC SERVO

2005 COMBI (NTSC)

3854R14927A

3. AV/JACK CIRCUIT DIAGRAM



AUDIO_2DAC

2005 COMBI (NTSC)

3854R14928A